



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

**1.1. Product identifier**

Product name : LIMPRO PARFUM CARD MOJITO LIME  
Product code : LP1V019  
UFI : 0170-9062-D00Q-X78G

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

Application : SU21 Consumer product. PC3 Air care products for indoor rooms (continuous action). Airfreshener.

**1.3. Details of the supplier of the safety data sheet**

Supplier : Dovox B.V.  
Computerweg 3  
3542 DP UTRECHT, The Netherlands  
Telephone : +31-30-7116 824  
E-mail : info@dovox.nl  
Website : www.dovox.nl

**1.4. Emergency telephone number**

EMERGENCY TELEPHONE NUMBER, for DOCTORS/FIRE BRIGADE/POLICE only:  
NL - Telephone : +31-30-7116 824 (During office hours only)

**SECTION 2 HAZARDS IDENTIFICATION**

**2.1. Classification of the substance or mixture**

CLP classification : Skin irritation, category 2. Eye irritation, category 2. Skin sensitization, category 1. Hazardous to the aquatic environment — Chronic category 3.  
Human health hazards : Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation.  
Physical/chemical hazards : Not classified as dangerous according to statutory EC-Directives. Combustible.  
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 : H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
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 hands Wear protective gloves and eye protection.  
eyes  
P302+P352 IF ON SKIN: Wash with plenty of water/soap.  
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P273 Avoid release to the environment.  
 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.
- 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 hands eyes Wear protective gloves and eye protection.
- 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: Linalool ; Citral ; d-Limonene ; Linalyl acetate ; Citronellol ; 1,3,4,6,7,8a-Hexahydro-1,1,5,5-tetramethyl-2H-2,4a-methanonaphthalin-8(5H)-one ; Reaction mass of 3,5-dimethylcyclohex-3-ene-1-carbaldehyde and 2,4-dimethylcyclohex-3-ene-1-carbaldehyde ; Pin-2(3)-ene ; (-)-Pin-2(10)-ene ; 3,7-Dimethyloctan-3-ol .

### 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.
Linalool	5 - < 10	78-70-6	201-134-4		01-2119474016-42
Citral	5 - < 10	5392-40-5	226-394-6		01-2119462829-23
d-Limonene	5 - < 10	5989-27-5	227-813-5		01-2119529223-47
Undecan-4-olide	1 - < 5	104-67-6	203-225-4		01-2119959333-34
Allyl heptanoate	1 - < 5	142-19-8	205-527-1		01-2119488961-23
Diethyl malonate	1 - < 5	105-53-3	203-305-9		01-2119886972-18
2,6-Dimethyloct-7-en-2-ol	1 - < 5	18479-58-8	242-362-4		01-2119457274-37
(E)-4-(2,6,6-Trimethyl-1-cyclohexen-1-yl)-3-buten-2-one	2,5 - < 5	79-77-6	201-224-3		01-2119449921-34
Linalyl acetate	1 - < 5	115-95-7	204-116-4		01-2119454789-19
Cis-2-tert-butylcyclohexyl acetate	2,5 - < 5	20298-69-5	243-718-1		01-2119970713-33
Citronellol	1 - < 5	106-22-9	203-375-0		01-2119453995-23
Oxydipropanol	1 - < 5	25265-71-8	246-770-3	MAC	
Allyl (3-methylbutoxy)acetate	0,25 - < 1	67634-00-8	266-803-5		01-2120795456-39
Allyl hexanoate	0,1 - < 1	123-68-2	204-642-4		01-2119983573-26
1,3,4,6,7,8a-Hexahydro-1,1,5,5-tetramethyl-2H-2,4a-methanonaphthalin-8(5H)-one	0,1 - < 1	23787-90-8	245-890-3		01-2120136162-69



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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
7-Methyl-3-methyleneocta-1,6-diene	0,1 - < 1	123-35-3	204-622-5		01-2119514321-56
Pin-2(3)-ene	0,25 - < 1	80-56-8	201-291-9		01-2119519223-49
(-)-Pin-2(10)-ene	0,25 - < 1	18172-67-3	242-060-2		01-2119519230-54
3,7-Dimethyloctan-3-ol	0,1 - < 1	78-69-3	201-133-9		01-2119454788-21

Substance name	Hazard Class	H-phrases	Pictograms	
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	
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
Undecan-4-olide	Aquatic Chronic 3	H412		
Allyl heptanoate	Acute Tox. 3; Acute Tox. 3; Aquatic Acute 1; Aquatic Chronic 3	H301; H311; H400; H412	GHS06; GHS09	M (acute) = 1
Diethyl malonate	Eye Irrit. 2	H319	GHS07	
2,6-Dimethyloct-7-en-2-ol	Skin Irrit. 2; Eye Irrit. 2	H315; H319	GHS07	
(E)-4-(2,6,6-Trimethyl-1-cyclohexen-1-yl)-3-buten-2-one	Aquatic Chronic 2	H411	GHS09	
Linalyl acetate	Skin Irrit. 2; Skin Sens. 1B; Eye Irrit. 2	H315; H317; H319	GHS07	
Cis-2-tert-butylcyclohexyl acetate	Aquatic Chronic 2	H411	GHS09	
Citronellol	Skin Irrit. 2; Skin Sens. 1B; Eye Irrit. 2	H315; H317; H319	GHS07	
Oxydipropanol	----	----	----	
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
Allyl hexanoate	Acute Tox. 3; Acute Tox. 3; Aquatic Acute 1; Aquatic Chronic 3	H301; H311; H331; H400; H412	GHS06; GHS09	M (acute) = 1
1,3,4,6,7,8a-Hexahydro-1,1,5,5-tetramethyl-2H-2,4a-methanonaphthalin-8(5H)-one	Skin Irrit. 2; Skin Sens. 1B; Aquatic Chronic 2	H315; H317; H411	GHS07; GHS09	
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	
7-Methyl-3-methyleneocta-1,6-diene	Flam. Liq. 3; Asp. Tox. 1; Skin Irrit. 2; Eye Irrit. 2; Aquatic Acute 1; Aquatic Chronic 2	H226; H304; H315; H319; H400; H411	GHS02; GHS07; GHS08; GHS09	
Pin-2(3)-ene	Flam. Liq. 3; Acute Tox. 4; Asp. Tox. 1; Skin Irrit. 2; Skin Sens. 1B; Aquatic Acute 1; Aquatic Chronic 1	H226; H302; H304; H315; H317; H400; H410	GHS02; GHS07; GHS08; GHS09	M (acute) = 1 M (chronic) = 1



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(-)-Pin-2(10)-ene	Flam. Liq. 3; Asp. Tox. 1; Skin Irrit. 2; Skin Sens. 1B; Aquatic Acute 1; Aquatic Chronic 1	H226; H304; H315; H317; H400; H410	GHS02; GHS07; GHS08; GHS09	M (acute) = 1 M (chronic) = 1
3,7-Dimethyloctan-3-ol	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 (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**

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 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
Oxydipropanol		67	-		MAC: DE
Pin-2(3)-ene		113	-		MAC: BE

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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Linalool	Inhalation			24.58 mg/m <sup>3</sup>
	Dermal	3 mg/kg bw	3 mg/kg bw/day	3.5 mg/kg bw/day
Citral	Inhalation			9 mg/m <sup>3</sup>
	Dermal			1,7 mg/kg bw/day
d-Limonene	Inhalation			66,7 mg/m <sup>3</sup>
	Dermal			9,5 mg/kg bw/day
Undecan-4-olide	Inhalation			19 mg/m <sup>3</sup>
	Dermal			5,38 mg/kg bw/day
Allyl heptanoate	Inhalation			16 mg/m <sup>3</sup>
	Dermal			4,7 mg/kg bw/day
2,6-Dimethyloct-7-en-2-ol	Dermal			7 mg/kg bw/day
	Inhalation			24.7 mg/m <sup>3</sup>
(E)-4-(2,6,6-Trimethyl-1-cyclohexen-1-yl)-3-buten-2-one	Dermal			6 mg/kg bw/day
	Inhalation			12.7 mg/m <sup>3</sup>
Linalyl acetate	Dermal	0,2362 mg/kg bw	0,2362 mg/kg bw/day	2,5 mg/kg bw/day
	Inhalation			2,75 mg/m <sup>3</sup>
Citronellol	Inhalation	10 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>	161,6 mg/m <sup>3</sup>
	Dermal	2,950 mg/kg bw		327,4 mg/kg bw/day
	Dermal			84 mg/kg bw/day
Oxydipropanol	Inhalation			238 mg/m <sup>3</sup>
	Dermal			1,4 mg/kg bw/day
Allyl (3-methylbutoxy)acetate	Inhalation			4,93 mg/m <sup>3</sup>
	Dermal			15 mg/m <sup>3</sup>
Allyl hexanoate	Inhalation			4,3 mg/kg bw/day
	Dermal			1,837 mg/m <sup>3</sup>
Reaction mass of 3,5-dimethylcyclohex-3-ene-1-carbaldehyde and 2,4-dimethylcyclohex-3-ene-1-carbaldehyde	Inhalation			0,521 mg/kg bw/day
	Dermal			3,8 mg/m <sup>3</sup>
Pin-2(3)-ene	Inhalation			0,542 mg/kg bw/day
	Dermal			5,69 mg/m <sup>3</sup>
(-)-Pin-2(10)-ene	Inhalation		0,054 mg/kg bw/day	0,8 mg/kg bw/day
	Dermal			11,14 mg/m <sup>3</sup>
3,7-Dimethyloctan-3-ol	Inhalation		0,190 mg/kg bw/day	3,16 mg/kg bw/day
	Dermal			

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
Linalool	Dermal	1.5 mg/kg bw		1.5 mg/kg bw/day	1.25 mg/kg bw/day
	Inhalation				4.33 mg/m <sup>3</sup>
Citral	Oral				2.49 mg/kg bw/day
	Dermal				1 mg/kg bw/day
	Inhalation				2,7 mg/m <sup>3</sup>
d-Limonene	Oral				0,6 mg/kg bw/day
	Inhalation				16,6 mg/m <sup>3</sup>
	Dermal				4,8 mg/kg bw/day
Undecan-4-olide	Oral				4,8 mg/kg bw/day
	Inhalation				4,68 mg/m <sup>3</sup>
	Dermal				2,7 mg/kg bw/day
	Oral				2,7 mg/kg bw/day



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Allyl heptanoate	Inhalation				4,1 mg/m3
	Dermal				2,3 mg/kg bw/day
	Oral				2,3 mg/kg bw/day
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
(E)-4-(2,6,6-Trimethyl-1-cyclohexen-1-yl)-3-buten-2-one	Dermal				3,6 mg/kg bw/day
	Inhalation				3,1 mg/m3
	Oral				1,8 mg/kg bw/day
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
	Oral				0,2 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
Oxydipropanol	Dermal				51 mg/kg bw/day
	Inhalation				70 mg/m3
	Oral				24 mg/kg bw/day
Allyl (3-methylbutoxy)acetate	Oral				0,5 mg/kg bw/day
	Dermal				0,87 mg/kg bw/day
Allyl hexanoate	Oral				2,1 mg/kg bw/day
	Inhalation				3,7 mg/m3
	Dermal				2,1 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
Pin-2(3)-ene	Inhalation				0,674 mg/m3
	Dermal				0,225 mg/kg bw/day
	Oral				0,225 mg/kg bw/day
(-)-Pin-2(10)-ene	Inhalation				1 mg/m3
	Dermal			0,027 mg/kg bw/day	0,3 mg/kg bw/day
	Oral				0,3 mg/kg bw/day
3,7-Dimethyloctan-3-ol	Inhalation				2,75 mg/m3
	Dermal			0,190 mg/kg bw/day	1,58 mg/kg bw/day
	Oral				1,58 mg/kg bw/day

Predicted no-effect concentration (PNEC):

Chemical name	Route of exposure	Fresh water	Marine water	
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
	Soil			0,327 mg/kg
Citral	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
d-Limonene	Soil			0,0209 mg/kg
	Water	0.014 mg/l	0.0014 mg/l	



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Undecan-4-olide	Sediment	3.85 mg/kg	0.385 mg/kg	
	STP			1.8 mg/l
	Soil			0.763 mg/kg
	Oral			133 mg/kg food
Allyl heptanoate	Water	0,0058 mg/l	0,00058 mg/l	
	Sediment	0,628 mg/kg	0,063 mg/kg	
	Intermittent water			0,058 mg/l
	STP			80 mg/l
2,6-Dimethyloct-7-en-2-ol	Soil			0,122 mg/kg
	Oral			66,7 mg/kg food
	Water	0,00012 mg/l	0,000012 mg/l	
	Sediment	0,012 mg/kg	0,0012 mg/kg	
(E)-4-(2,6,6-Trimethyl-1-cyclohexen-1-yl)-3-buten-2-one	Intermittent water			0,0012 mg/l
	STP			10 mg/l
	Soil			0,00233 mg/kg
	Oral			51,78 mg/kg food
Linalyl acetate	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
Cis-2-tert-butylcyclohexyl acetate	Soil			0,103 mg/kg
	Oral			111 mg/kg food
	Water	0.004 mg/l	0 mg/l	
	Sediment	0.151 mg/kg	0.015 mg/kg	
Citronellol	Intermittent water			0,7 mg/l
	STP			1 mg/l
	Soil			0.015 mg/kg
	Water	0,011 mg/l	0,001 mg/l	
Oxydipropanol	Sediment	0,609 mg/kg	0,061 mg/kg	
	Intermittent water			0,11 mg/l
	STP			1 mg/l
	Soil			0,115 mg/kg
Allyl (3-methylbutoxy)acetate	Water	0,011 mg/l	0,0011 mg/l	
	Sediment	1,5 mg/kg	0,15 mg/kg	
	Intermittent water			0,017 mg/l
	STP			10 mg/l
Allyl hexanoate	Soil			0,293 mg/kg
	Water	0.002 mg/l	0 mg/l	
	Sediment	0.026 mg/kg	0.003 mg/kg	
	Intermittent water			0,024 mg/l
Allyl (3-methylbutoxy)acetate	STP			580 mg/l
	Soil			0.004 mg/kg
	Water	0,1 mg/l	0,01 mg/l	
	Sediment	0,238 mg/kg	0,0238 mg/kg	
Allyl hexanoate	Intermittent water			1 mg/l
	STP			1000 mg/l
	Soil			0,0253 mg/kg
	Oral			313 mg/kg food
Allyl hexanoate	Water	0.00077 mg/l	0.00008 mg/l	
	Sediment	0.0089 mg/kg	0.0009 mg/kg	
	STP			0.0089 mg/l
	Soil			0.0013 mg/kg
Allyl hexanoate	Water	0,000117 mg/l	0,000011 mg/l	
	Sediment	0,00446 mg/kg	0,000446 mg/kg	
	Intermittent water			0,00117 mg/l
	STP			10 mg/l



Reaction mass of 3,5-dimethylcyclohex-3-ene-1-carbaldehyde and 2,4-dimethylcyclohex-3-ene-1-carbaldehyde	Soil			0,000825 mg/kg
	Oral			47,56 mg/kg food
Pin-2(3)-ene	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
(-)-Pin-2(10)-ene	Water	0.000606 mg/l	0.000061 mg/l	
	Sediment	0,157 mg/kg	0,0157 mg/kg	
	STP			0,2 mg/l
	Soil			0,0317 mg/kg
3,7-Dimethyloctan-3-ol	Oral			8,76 mg/kg food
	Water	0,001 mg/l	0,0001 mg/l	
	Sediment	0,337 mg/kg	0,034 mg/kg	
	STP			3,26 mg/l
	Soil			0,067 mg/kg
	Oral			13,1 mg/kg food
	Water	0.009 mg/l	0.001 mg/l	
	Sediment	0.082 mg/kg	0.008 mg/kg	
	Intermittent water			0,089 mg/l
	STP			450 mg/l
	Soil			0.011 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: nitril. 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: nitril. ± 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 applicable.	Not measured. Not relevant for mixtures.
Flash point	: 92 °C	Closed cup.
Flammability (solid, gas)	: Not applicable.	Liquid. See flashpoint.
Auto ignition temperature	: > 225 °C	
Boiling point/boiling range	: > 100 °C	
Melting point/melting range	: < 0 °C	
Explosive properties	: Not an explosive.	
Explosion limits (% in air)	: Not known.	Lower explosion limit in air (%): 0,7 ( d-Limonene ) Upper explosion limit in air (%): 9 ( Citral )
Oxidising properties	: Not applicable.	Does not contain oxidizing substances.
Decomposition temperature	: Not known.	
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.

## 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: 35 %. ATE: > 5 mg/l. Low toxicity. Not classified - based on available data, the classification criteria are not met.



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- 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 : 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.
  
- 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. 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: > 3508 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 : 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	
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	
NOEL (carcinogenicity, oral)		> 100 mg/kg bw/d	OECD 453	Rat	



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d-Limonene	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 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	
Diethyl malonate	LD50 (oral)	> 2000 mg/kg bw	OECD 423	Rat	
	Genotoxicity - in vitro	Not genotoxic			
	NOAEL (oral)	150 mg/kg bw/d		Rat	
	LD50 (oral)	14900 mg/kg bw	----	Rat	
	LD50 (dermal)	> 16848 mg/kg bw	----	Rabbit	
	Eye irritation	Moderately irritant		Rabbit	
	Skin irritation	Non-irritant		Rabbit	
	Mutagenicity	Negative	OECD 471	Salmonella typhimurium	
	NOAEL (oral)	300 mg/kg bw/d	OECD 421	Rat	
	Genotoxicity - in vitro	Not genotoxic	OECD 473	----	
	NOAEL (fertility, oral)	> 1000 mg/kg bw/d	OECD 421	Rat	
	NOAEL (developmental toxicity, dermal)	> 1000 mg/kg bw/d	OECD 422	Rat	
	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		
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	
Linalyl acetate		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)	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	



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Citronellol	LC50 (inhalation) - estimate	> 5000 mg/m3	----	Rat	
	Skin sensitisation	Sensitizing.	OECD 429	Mouse	
	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	
1,3,4,6,7,8a-Hexahydro-1,1,5,5-tetramethyl-2H-2,4-methanonaphthalin-8(5H)-one	NOAEL (developmental toxicity, dermal)	> 300 mg/kg bw/d	OECD 421	Rat	
	Skin irritation	Moderately irritant	Patch test	Human	
	Eye irritation	Moderately irritant		Rabbit	
	Skin irritation	Irritant			
	LD50 (oral)	> 2000 mg/kg bw	OECD 420	Rat	
	LD50 (oral)	3900 mg/kg bw		Rat	
	Reaction mass of 3,5-dimethylcyclohex-3-ene-1-carbaldehyde and 2,4-dimethylcyclohex-3-ene-1-carbaldehyde	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	
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	
Pin-2(3)-ene		Skin sensitisation	Sensitizing.	----	Guinea pig
	Skin irritation	Non-irritant	----	Human	
	NOAEL (fertility, oral)	749 mg/kg bw/d	OECD 421	Rat	
	Skin irritation	Moderately irritant	----	Rabbit	
	Mutagenicity	Not mutagenic	----	Salmonella typhimurium	
	Eye irritation - estimate	Moderately irritant	Read across	Rabbit	
	Genotoxicity - estimate	Not genotoxic	Read across		
	NOAEL (inhalation)	170 mg/m3	OECD 413	Rat	
	NOAEL (oral) - estimate	800 mg/kg bw/d	Read across		
	LD50 (oral)	500 mg/kg bw	OECD 423	Rat	
(-)-Pin-2(10)-ene	LD50 (dermal)	> 2000 mg/kg bw	OECD 402	Rat	
	LD50 (oral) - estimate	> 2000 mg/kg bw	Read across	Rat	
	LD50 (dermal) - estimate	> 5000 mg/kg bw	Read across	Rabbit	
	Mutagenicity - estimate	Not mutagenic	Read across	Salmonella typhimurium	
3,7-Dimethyloctan-3-ol	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		



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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
LC50 (inhalation) - estimate	> 5000 mg/m3		Rat
Skin sensitisation	Sensitizing.	OECD 429	Mouse

## 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 : Harmful to aquatic organisms. Calculated LC50 (fish): 2 mg/l. Calculated EC50 (waterflea): 3 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 : 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 properties : Not applicable.

### 12.7. Other adverse effects

Other adverse effects : Not applicable.

Ecological information:

Chemical name	Property		Method	Test animal
d-Limonene	LC50 (fish)	0,72 mg/l	OECD 203	Pimephales promelas
	EC50 (waterflea)	0,307 mg/l	OECD 202	Daphnia magna
	Ultimate aerobic biodegradation (%)	71,4 %	OECD 301 B	
	NOEC (waterflea) - chronic	0,08 mg/l.d	OECD 211	Daphnia magna



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d-Limonene	IC50 (algae)	0,32 mg/l	OECD 201	Pseudokirchnerella subcapitata
	NOEC (fish)	0,059 mg/l.d		Pimephales promelas
Undecan-4-olide	Log P(ow)	4,38		
	IC50 (algae)	5,94 mg/l	OECD 201	Pseudokirchnerella subcapitata
Undecan-4-olide	LC50 (fish)	569 mg/l	----	Oncorhynchus mykiss
	Ultimate aerobic biodegradation (%)	82 %	Read across	
	EC50 (waterflea)	17 mg/l	----	Daphnia magna
Allyl heptanoate	Log P(ow)	3,6		
	IC50 (algae) - estimate	> 4,6 mg/l		
Allyl heptanoate	LC50 (fish) - estimate	0,117 mg/l	OECD 203	Brachydanio rerio
	Ultimate aerobic biodegradation (%)	81 %	OECD 301 F	
	EC50 (waterflea)	0,89 mg/l	OECD 202	Daphnia magna
(E)-4-(2,6,6-Trimethyl-1-cyclohexen-1-yl)-3-buten-2-one	Log P(ow)	3,97		
	EC50 (waterflea)	1 mg/l		Daphnia magna
(E)-4-(2,6,6-Trimethyl-1-cyclohexen-1-yl)-3-buten-2-one	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
Cis-2-tert-butylcyclohexyl acetate	Log P(ow)	4,0000		
	LC50 (fish)	5,6 mg/l		Brachydanio rerio
Cis-2-tert-butylcyclohexyl acetate	EC50 (waterflea)	17 mg/l		Daphnia magna
	IC50 (algae)	4,2 mg/l	OECD 201	Desmodesmus subspicatus
	NOEC (algae)	0,57 mg/l	OECD 201	Desmodesmus subspicatus
Cis-2-tert-butylcyclohexyl acetate	Ultimate aerobic biodegradation (%)	43 %	OECD 301 F	
	Log P(ow)	4,7		
Allyl (3-methylbutoxy)acetate	IC50 (algae) - estimate	2,06 mg/l	----	----
	LC50 (fish) - estimate	0,77 mg/l	----	----
	EC50 (waterflea) - estimate	5,09 mg/l	----	----
	Ultimate aerobic biodegradation (%)	> 60 %	OECD 301 B	
Allyl (3-methylbutoxy)acetate	Log P(ow)	2,72		
	Ultimate aerobic biodegradation (%)	62 %	OECD 301 B	
Pin-2(3)-ene	LC50 (fish)	0,28 mg/l	----	Pimephales promelas
	EC50 (waterflea)	1,44 mg/l	----	Daphnia magna
Pin-2(3)-ene	Log P(ow)	4,32		
	EC50 (waterflea) - estimate	> 0,1 mg/l		
(-)-Pin-2(10)-ene	LC50 (fish) - estimate	> 0,1 mg/l		
	Log P(ow)	4,35		

## 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

Transport name : Not regulated.

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

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

Class : This product is not classified according to ADR/RID/ADN.

IMDG (sea)

Class : This product is not classified according to IMDG.

Marine pollutant : 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

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
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 3	: 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. 3	: Acute toxicity, category 3.
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 Acute 1	: Hazardous to the aquatic environment — Acute category 1.



Full text of H-phrases mentioned in section 3:

H226	Flammable liquid and vapour.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H330	Fatal if inhaled.
H331	Toxic 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.

Advice on any training appropriate for workers: none.

Number format : "," used as decimal separator.

End of safety data sheet.