



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

1.1. Product identifier

Product name : LIMPRO PARFUMCARD COTTON FRESH
Product code : LIM-066

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

Application : SU21 Consumer product. PC3 Air care products. 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
Fax : +31-30-3100 141
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)

EMERGENCY TELEPHONE NUMBER (for DOCTORS only):
National Poisons Information Service +44 344 892 0111 (24/7)

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. May cause an allergic skin reaction. Causes serious eye irritation.
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.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
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.
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.
P391	Collect spillage.
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: alpha-Hexylcinnamaldehyde ; 4-tert-Butylcyclohexyl acetate ; Linalool ; Hexyl salicylate ; 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one ; Benzyl salicylate ; Dodecanal ; 3-Methylcyclopentadecenone ; Reaction mass of 3,5-dimethylcyclohex-3-ene-1-carbaldehyde and 2,4-dimethylcyclohex-3-ene-1-carbaldehyde .

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	10 - < 25	18479-58-8	242-362-4		01-2119457274-37
alpha-Hexylcinnamaldehyde	10 - < 25	101-86-0	202-983-3		01-2119533092-50
4-tert-Butylcyclohexyl acetate	5 - < 10	32210-23-4	250-954-9		01-2119976286-24
3,5,5-Trimethylhexyl acetate	5 - < 10	58430-94-7	261-245-9		01-2119972325-34
3,7-Dimethylnona-1,6-dien-3-ol	5 - < 10	10339-55-6	233-732-6		01-2119969272-32
Linalool	5 - < 10	78-70-6	201-134-4		01-2119474016-42
3-Methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one	5 - < 10	127-51-5	204-846-3		01-2120138569-45
Hexyl salicylate	1 - < 5	6259-76-3	228-408-6		01-2119638275-36
Benzyl acetate	1 - < 5	140-11-4	205-399-7		01-2119638272-42
Cis-2-tert-butylcyclohexyl acetate	1 - < 5	20298-69-5	243-718-1		
3a,4,5,6,7,7a-Hexahydro-4,7-methano-1H-inden-6-yl propionate	1 - < 5	17511-60-3	241-514-7		01-2119969447-21
2-Phenylethanol	1 - < 5	60-12-8	200-456-2		01-2119963921-31



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1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	1 - < 5	54464-57-2	259-174-3		01-2119489989-04
Tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans)	1 - < 5	63500-71-0	405-040-6		01-2119455547-30
Benzyl salicylate	1 - < 5	118-58-1	204-262-9		01-2119969442-31
Dodecanal	0,1 - < 1	112-54-9	203-983-6		01-2119969441-33
3-Methylcyclopentadecenone	0,1 - < 1	82356-51-2	429-900-5		01-0000017618-62
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
Allyl (cyclohexyloxy)acetate	0,1 - < 1	68901-15-5	272-657-3		01-2120770514-54
acetophenone	0,1 - < 1	98-86-2	202-708-7		

Substance name	Hazard Class	H-phrases	Pictograms	
2,6-Dimethyloct-7-en-2-ol	Skin Irrit. 2; Eye Irrit. 2	H315; H319	GHS07	
alpha-Hexylcinnamaldehyde	Skin Sens. 1B; Aquatic Acute 1; Aquatic Chronic 2	H317; H400; H411	GHS07; GHS09	M (acute) = 1
4-tert-Butylcyclohexyl acetate	Skin Sens. 1B	H317	GHS07	
3,5,5-Trimethylhexyl acetate	Skin Irrit. 2; Aquatic Chronic 2	H315; H411	GHS07; GHS09	
3,7-Dimethylnona-1,6-dien-3-ol	Skin Irrit. 2; Eye Irrit. 2	H315; H319	GHS07	
Linalool	Skin Irrit. 2; Eye Irrit. 2; Skin Sens. 1B	H315; H317; H319	GHS07	
3-Methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one	Aquatic Chronic 2	H411	GHS09	
Hexyl salicylate	Skin Irrit. 2; Skin Sens. 1B; Aquatic Acute 1; Aquatic Chronic 1	H315; H317; H400; H410	GHS07; GHS09	M (acute) = 1 M (chronic) = 1
Benzyl acetate	Aquatic Chronic 3	H412	----	
Cis-2-tert-butylcyclohexyl acetate	Aquatic Chronic 2	H411	GHS09	
3a,4,5,6,7,7a-Hexahydro-4,7-methano-1H-inden-6-yl propionate	Aquatic Chronic 2	H411	GHS09	
2-Phenylethanol	Acute Tox. 4; Eye Irrit. 2	H302; H319	GHS07	
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
Tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans)	Eye Irrit. 2	H319	GHS07	
Benzyl salicylate	Skin Sens. 1; Eye Irrit. 2; Aquatic Chronic 3	H317; H319; H412	GHS07; GHS09	
Dodecanal	Skin Irrit. Skin Sens. 1B; Eye Irrit. 2	H315; H317; H319	GHS07	
3-Methylcyclopentadecenone	Skin Sens. 1B; Aquatic Acute 1; Aquatic Chronic 1	H317; H400; H410	GHS07; GHS09	M (acute) = 1 M (chronic) = 1
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	
Allyl (cyclohexyloxy)acetate	Acute Tox. 4; Aquatic Acute 1; Aquatic Chronic 1	H302; H400; H410	GHS07	M (acute) = 1 M (chronic) = 1



acetophenone	Acute Tox. 4; Eye Irrit. 2	H302; H319	GHS07	
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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.

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.



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 (< 35 °C). 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
acetophenone		5			MAC: BG, LV, LT

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
2,6-Dimethyloct-7-en-2-ol	Dermal				20,8 mg/kg bw/day
alpha-Hexylcinnamaldehyde	Inhalation				73,5 mg/m ³
	Dermal	0,525 mg/kg bw		0,525 mg/kg bw/day	18,2 mg/kg bw/day
3,5,5-Trimethylhexyl acetate	Inhalation	6,28 mg/m ³			0,078 mg/m ³
	Dermal				0,13 mg/kg bw/day



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3,7-Dimethylnona-1,6-dien-3-ol	Inhalation				0,94 mg/m3
	Dermal	16 mg/kg bw	5,5 mg/kg bw	16 mg/kg bw/day	2,7 mg/kg bw/day
Linalool	Inhalation		18 mg/m3		3 mg/m3
	Dermal		5 mg/kg bw		2,5 mg/kg bw/day
Hexyl salicylate	Inhalation		16,5 mg/m3		2,8 mg/m3
	Dermal		2083 mg/kg bw		2083 mg/kg bw/day
Benzyl acetate	Inhalation		0,729 mg/m3		0,729 mg/m3
	Dermal		12,5 mg/kg bw		6,25 mg/kg bw/day
2-Phenylethanol	Inhalation		43,8 mg/m3		21,9 mg/m3
	Dermal				21,2 mg/kg bw/day
1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphtyl)ethan-1-one	Dermal	0,1011 mg/kg bw			59,9 mg/m3
					1,73 mg/kg bw/day
	Inhalation				1,76 mg/m3
Tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans)	Dermal				41,7 mg/kg bw/day
	Inhalation				44,1 mg/m3
Benzyl salicylate	Dermal				0,9 mg/kg bw/day
	Inhalation				3,17 mg/m3
Dodecanal	Dermal				14,1 mg/kg bw/day
	Inhalation				49,7 mg/m3
Allyl (cyclohexyloxy)acetate	Dermal				0,448 mg/kg bw/day
	Inhalation				3,16 mg/m3

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				12,5 mg/kg bw/day
	Inhalation				21,7 mg/m3
	Oral				12,5 mg/kg bw/day
alpha-Hexylcinnamaldehyde	Dermal	0,0787 mg/kg bw		0,0787 mg/kg bw/day	9,11 mg/kg bw/day
	Inhalation	4,71 mg/m3			0,019 mg/m3
	Oral				0,056 mg/kg bw/day
3,5,5-Trimethylhexyl acetate	Dermal				0,07 mg/kg bw/day
	Inhalation				0,23 mg/m3
	Oral				0,07 mg/kg bw/day
3,7-Dimethylnona-1,6-dien-3-ol	Dermal	16 mg/kg bw	2,7 mg/kg bw	16 mg/kg bw/day	1,4 mg/kg bw/day
	Inhalation		4,4 mg/m3		0,74 mg/m3
	Oral		1,3 mg/kg bw		0,2 mg/kg bw/day
Linalool	Dermal		2,5 mg/kg bw	15 mg/kg bw/day	1,25 mg/kg bw/day
	Inhalation		4,1 mg/m3		0,7 mg/m3
	Oral		1,2 mg/kg bw		0,2 mg/kg bw/day
Hexyl salicylate	Dermal		1250 mg/kg bw		1250 mg/kg bw/day
	Inhalation		0,219 mg/m3		0,219 mg/m3
	Oral		0,0625 mg/kg bw		0,0625 mg/kg bw/day
Benzyl acetate	Dermal		6,25 mg/kg bw		3,125 mg/kg bw/day
	Inhalation		11 mg/m3		5,5 mg/m3
	Oral		6,25 mg/kg bw		3,125 mg/kg bw/day
2-Phenylethanol	Dermal				12,7 mg/kg bw/day
	Inhalation				17,7 mg/m3
	Oral		5,1 mg/kg bw		5,1 mg/kg bw/day
1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphtyl)ethan-1-one	Dermal	0,0506 mg/kg bw			0,86 mg/kg bw/day



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Tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans)	Inhalation Oral Dermal				0,43 mg/m3 0,25 mg/kg bw/day 25 mg/kg bw/day
Benzyl salicylate	Inhalation Oral Dermal				13 mg/m3 7,5 mg/kg bw/day 0,45 mg/kg bw/day
Dodecanal	Inhalation Oral Dermal				0,78 mg/m3 0,45 mg/kg bw/day 7 mg/kg bw/day
Allyl (cyclohexyloxy)acetate	Inhalation Oral Dermal				12,3 mg/m3 7 mg/kg bw/day 0,16 mg/kg bw/day
	Inhalation Oral				0,557 mg/m3 0,16 mg/kg bw/day

Predicted no-effect concentration (PNEC):

Chemical name	Route of exposure	Fresh water	Marine water	
2,6-Dimethyloct-7-en-2-ol	Water	0,0278 mg/l	0,0027 mg/l	
	Sediment	0,594 mg/kg	0,0594 mg/kg	
	Intermittent water			0,278 mg/l
	STP			10 mg/l
	Soil			0,103 mg/kg
alpha-Hexylcinnamaldehyde	Oral			111 mg/kg food
	Water	0,03 mg/l	0,003 mg/l	
	Sediment	47,7 mg/kg	4,77 mg/kg	
	Intermittent water			0,03 mg/l
	STP			10 mg/l
4-tert-Butylcyclohexyl acetate	Soil			9,51 mg/kg
	Oral			6,6 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
3,5,5-Trimethylhexyl acetate	STP			12,2 mg/l
	Soil			0,42 mg/kg
	Oral			66,76 mg/kg food
	Water	0,0077 mg/l	0,0007 mg/l	
	Sediment	2,89 mg/kg	0,29 mg/kg	
3,7-Dimethylnona-1,6-dien-3-ol	Intermittent water			0,077 mg/l
	STP			10 mg/l
	Soil			0,573 mg/kg
	Oral			2,66 mg/kg food
	Water	0,023 mg/l	0,0023 mg/l	
Linalool	Sediment	0,223 mg/kg	0,0223 mg/kg	
	Intermittent water			0,23 mg/l
	STP			10 mg/l
	Soil			0,031 mg/kg
	Oral			8,53 mg/kg food
Hexyl salicylate	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
Hexyl salicylate	Oral			7,8 mg/kg food
	Water	0,000357 mg/l	0,0001 mg/l	
	Sediment	0,272 mg/kg	0,0272 mg/kg	



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Benzyl acetate	Intermittent water			0,0036 mg/l
	STP			10 mg/l
	Soil			0,0542 mg/kg
Cis-2-tert-butylcyclohexyl acetate	Water	0,004 mg/l	0,0004 mg/l	
	Sediment	0,114 mg/kg	0,0114 mg/kg	
	Intermittent water			0,04 mg/l
2-Phenylethanol	STP			8,55 mg/l
	Soil			0,0205 mg/kg
	Water	0,011 mg/l	0,0011 mg/l	
Tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans)	Sediment	1,5 mg/kg	0,15 mg/kg	
	Intermittent water			0,017 mg/l
	STP			10 mg/l
Benzyl salicylate	Soil			0,293 mg/kg
	Water	0,215 mg/l	0,0215 mg/l	
	Sediment	1,454 mg/kg	0,1454 mg/kg	
Dodecanal	Intermittent water			2,15 mg/l
	STP			10 mg/l
	Soil			0,164 mg/kg
Allyl (cyclohexyloxy)acetate	Water	0,094 mg/l	0,009 mg/l	
	Sediment	0,412 mg/kg	0,041 mg/kg	
	Intermittent water			0,94 mg/l
acetophenone	STP			10 mg/l
	Soil			0,09 mg/kg
	Water	0,00103 mg/l	0,00010 mg/l	
Benzyl acetate	Sediment	0,583 mg/kg	0,0583 mg/kg	
	Intermittent water			0,01030 mg/l
	STP			10 mg/l
Benzyl salicylate	Soil			0,116 mg/kg
	Oral			80 mg/kg food
	Water	0,0035 mg/l	0,00035 mg/l	
Dodecanal	Sediment	1,41 mg/kg	0,141 mg/kg	
	Intermittent water			0,035 mg/l
	STP			10 mg/l
Allyl (cyclohexyloxy)acetate	Soil			0,278 mg/kg
	Oral			313 mg/kg food
	Water	0,00205 mg/l	0,000205 mg/l	
acetophenone	Sediment	0,0387 mg/kg	0,00387 mg/kg	
	STP			0,3 mg/l
	Soil			0,375 mg/kg
acetophenone	Water	0,0864 mg/l	0,00864 mg/l	
	Sediment	0,178 mg/kg	0,0178 mg/kg	
	Intermittent water			0,864 mg/l
acetophenone	STP			10 mg/l
	Soil			0,155 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

Appearance	: 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	: > 100 °C	
Flammability (solid, gas)	: Not applicable.	Liquid. See flashpoint.
Auto ignition temperature	: > 235 °C	
Boiling point/boiling range	: > 100 °C	
Melting point/melting range	: Not known.	
Explosive properties	: None known.	Does not contain explosives.
Explosion limits (% in air)	: Not known.	Lower explosion limit in air (%): 0,9 (Linalool)
		Upper explosion limit in air (%): 11,9 (2-Phenylethanol)
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.	
Vapour density (20°C)	: > 1	(air = 1)
Relative density (20°C)	: Not known.	
Evaporation rate	: Not known.	(n-butyl acetate = 1)

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 toxicological effects

No toxicological research has been carried out on this product.

Inhalation

- Acute toxicity : Calculated LC50: > 10 mg/l. Ingredients of unknown toxicity: 72 %. ATE: > 5 mg/l. 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 : 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: > 4552 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: > 3511 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 classified - based on available data, the classification criteria are not met. Does not contain substances with an aspiration hazard.
- 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.



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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		
	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	
	alpha-Hexylcinnamaldehyde	NOAEL (development, oral)	100 mg/kg bw/d	OECD 421	Rat
Genotoxicity - in vivo		Not genotoxic	OECD 474		
Genotoxicity - in vitro		Not genotoxic	OECD 476		
Mutagenicity		Negative	OECD 471	Salmonella typhimurium	
Eye irritation		Non-irritant		Rabbit	
NOAEL (oral) - estimate		30 mg/kg bw/d	Read across	Rat	
LD50 (dermal)		> 3000 mg/kg bw	OECD 402	Rabbit	
LC50 (inhalation)		> 5000 mg/m3	OECD 403	Rat	
LD50 (oral)		> 2450 mg/kg bw	OECD 401	Rat	
Skin sensitisation		2372 ug/cm2	OECD 429	Mouse	
Skin irritation		Moderately irritant	OECD 404	Rabbit	
NOAEL (dermal)		25 mg/kg bw/d		Rat	
4-tert-Butylcyclohexyl acetate		LD50 (oral)	5000 mg/kg bw	-----	Rat
		LD50 (dermal)	> 5000 mg/kg bw		Rabbit
	Eye irritation	Non-irritant		Rabbit	
	Skin irritation	Non-irritant		Rabbit	
	NOAEL (oral) - estimate	710 mg/kg bw/d	Read across		
	3,5,5-Trimethylhexyl acetate	Genotoxicity - in vitro	Not genotoxic	OECD 476	-----
NOAEL (oral)		> 40 mg/kg bw/d	OECD 422	Rat	
LD50 (dermal)		> 5000 mg/kg bw	OECD 402	Rabbit	
LD50 (oral)		4250 mg/kg bw	OECD 401	Rat	
Mutagenicity		Negative	OECD 471	Salmonella typhimurium	
NOAEL (fertility, oral)		40 mg/kg bw/d	OECD 422	Rat	
Skin sensitisation		Not sensitizing	OECD 406	Guinea pig	
Eye irritation		Slightly irritant	OECD 405		
Skin irritation		Irritant	OECD 404	Rabbit	
3,7-Dimethylnona-1,6-dien-3-ol		LD50 (oral)	5000 mg/kg bw	-----	Rat
	LD50 (dermal)	> 5000 mg/kg bw	-----	Rabbit	
	NOAEL (oral) - estimate	117 mg/kg bw/d	Read across	Rat	
	NOAEL (dermal) - estimate	250 mg/kg bw/d	Read across	Rat	
	Mutagenicity	Not mutagenic	OECD 471	Salmonella typhimurium	
	Genotoxicity - estimate	Not genotoxic	Read across		
	Skin irritation	Irritant	-----	Rabbit	
Linalool	Eye irritation	Irritant	-----	Rabbit	
	NOAEL (development, oral)	365 mg/kg bw/d	-----	Rat	
	Eye irritation	Non-irritant	OECD 405	Rabbit	
	Skin sensitisation	12650 ug/cm2	OECD 429	Mouse	



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Hexyl salicylate	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	
	NOAEL (fertility) - estimate	Not reprotoxic	Read across		
	NOAEL (development) - estimate	Not teratogenic	Read across		
	Genotoxicity - in vivo	Not genotoxic	-----	Mouse	
	Genotoxicity - in vitro	Not genotoxic	OECD 476	Chinese Hamster	
	Mutagenicity	Negative	OECD 471	Salmonella typhimurium	
2-Phenylethanol	NOAEL (oral) - estimate	50 mg/kg bw/d	Read across		
	Skin irritation	Moderately irritant	OECD 404	Rabbit	
	LD50 (dermal)	> 5000 mg/kg bw		Rabbit	
	Eye irritation	Non-irritant	OECD 405	Rabbit	
	LD50 (oral)	> 5000 mg/kg bw	-----	Rat	
	LC50 (inhalation) - estimate	> 5000 mg/m3		Rat	
	Mutagenicity	Negative	OECD 471	Salmonella typhimurium	
	NOAEL (developmental toxicity, dermal)	140 mg/kg bw/d		Rat	
	Skin sensitisation - estimate	Not sensitizing			
	LD50 (dermal)	2535 mg/kg bw	OECD 402	Rabbit	
	LC50 (inhalation)	> 4630 mg/m3		Rat	
	Skin irritation	Slightly irritant	-----	Rabbit	
	Eye irritation	Irritant	-----	Rabbit	
	NOAEL (development, oral)	4,3 mg/kg bw/d		Rat	
1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	Genotoxicity - in vitro	Not genotoxic	OECD 476		
	NOAEL (dermal)	510 mg/kg bw/d	OECD 411	Rat	
	LD50 (oral)	1609 mg/kg bw	-----	Rat	
	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	
	Tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans)	NOAEL (developmental toxicity, dermal)	> 1000 mg/kg bw/d	-----	Rat
		NOAEL (fertility, dermal)	> 1000 mg/kg bw/d		Rat
		Mutagenicity	Negative	OECD 471	Salmonella typhimurium
		Skin sensitisation	Not sensitizing	OECD 406	Guinea pig
		NOAEL (oral)	125 mg/kg bw/d	OECD 407	Rat
NOAEL (dermal)		> 1000 mg/kg bw/d	OECD 411		
Genotoxicity - in vivo		> 600 mg/kg bw/d	OECD 474	Mouse	
Genotoxicity - in vitro		Not genotoxic	OECD 473	-----	



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Benzyl salicylate	Skin irritation	Non-irritant	Patch test	Human
	Skin irritation	Non-irritant	----	Rabbit
	Eye irritation	Irritant	----	Rabbit
	LD50 (dermal)	> 2000 mg/kg bw	----	Rabbit
	LD50 (oral)	> 5000 mg/kg bw	----	Rat
	LD50 (oral)	2227 mg/kg bw	----	Rat
	Skin sensitisation	725 ug/cm ²	OECD 429	Mouse
	Skin irritation	Non-irritant	----	Rabbit
	NOAEL (oral) - estimate	> 360 mg/kg bw/d	Read across	Rat
	Mutagenicity	Negative	OECD 471	Salmonella typhimurium
Dodecanal	NOAEL (fertility) - estimate	180 mg/kg.d	Read across	Rat
	NOAEL (development) - estimate	> 360 mg/kg.d	Read across	Rat
	Eye irritation	Moderately irritant	----	Rabbit
	LD50 (dermal)	> 2000 mg/kg bw	----	Rabbit
	Skin irritation	Mildly irritant		Human
	LD50 (oral)	23100 mg/kg bw	----	Rat
	NOAEL (oral)	1409 mg/kg bw/d	OECD 408	Rat
	Genotoxicity - estimate	Not genotoxic	Read across	
	Skin irritation - estimate	Irritant	Read across	Rabbit
	Eye irritation - estimate	Irritant	Read across	Rabbit
3-Methylcyclopentadecenone	Skin sensitisation - estimate	Sensitizing.	Read across	Mouse
	Skin sensitisation	Not sensitizing	OECD 406	Guinea pig
	Skin irritation	Non-irritant	OECD 404	Rabbit
	LD50 (dermal)	> 2000 mg/kg bw	----	Rabbit
	LD50 (oral)	> 2000 mg/kg bw	----	Rat
	Mutagenicity	Negative	OECD 471	Salmonella typhimurium
	Genotoxicity - in vitro	Not genotoxic	OECD 473	----
	NOAEL (fertility, oral)	> 1000 mg/kg bw/d	OECD 415	Rat
	Eye irritation	Non-irritant	OECD 405	Rabbit
	Skin sensitisation - estimate	Sensitizing.	Read across	Guinea pig
Reaction mass of 3,5-dimethylcyclohex-3-ene-1-carbaldehyde and 2,4-dimethylcyclohex-3-ene-1-carbaldehyde				
	Skin irritation	Irritant		Rabbit
	Eye irritation	Slightly irritant		Rabbit
	LD50 (dermal)	> 5000 mg/kg bw		Rabbit
	LD50 (oral)	3900 mg/kg bw		Rat

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): 5 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 ass

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

12.6. Other adverse effects

Other information : Not applicable.

Ecological information:

Chemical name	Property		Method	Test animal
alpha-Hexylcinnamaldehyde	LC50 (fish)	1,7 mg/l	OECD 203	Pimephales promelas
	IC50 (alga)	> 0,32 mg/l	OECD 201	Desmodesmus subspicatus
	Ultimate aerobic biodegradation (%)	97 %	OECD 301 F	
	NOEC (fish)	0,93 mg/l	OECD 203	Pimephales promelas
3,5,5-Trimethylhexyl acetate	Log P(ow)	5,3		
	LC50 (fish)	7,7 mg/l		Pimephales promelas
	EC50 (waterflea)	> 5,4 mg/l	----	Daphnia magna
	IC50 (alga)	1,3 mg/l	OECD 201	Pseudokirchnerella subcapitata
3-Methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one	Log P(ow)	4,6		
	LC50 (fish)	10,9 mg/l	----	Oncorhynchus mykiss
	Ultimate aerobic biodegradation (%)	61,8 %	OECD 301 B	
	EC50 (waterflea) - estimate	3,04 mg/l	----	Daphnia magna
Hexyl salicylate	Log P(ow)	4,6		
	EC50 (waterflea)	0,357 mg/l	OECD 202	Daphnia magna
	IC50 (alga)	0,28 mg/l	OECD 201	Desmodesmus subspicatus
	Ultimate aerobic biodegradation (%)	91 %	OECD 301 F	
Cis-2-tert-butylcyclohexyl acetate	LC50 (fish) - estimate	1,34 mg/l	----	Brachydanio rerio
	Log P(ow)	5,5000		
	LC50 (fish)	5,6 mg/l		Brachydanio rerio
	EC50 (waterflea)	17 mg/l		Daphnia magna
	IC50 (alga)	4,2 mg/l	OECD 201	Desmodesmus subspicatus
	Ultimate aerobic biodegradation (%)	43 %	OECD 301 F	
	NOEC (algae)	0,57 mg/l	OECD 201	Desmodesmus subspicatus
	Log P(ow)	4,7		
3a,4,5,6,7,7a-Hexahydro-4,7-methano-1H-inden-6-yl propionate	LC50 (fish)	6,7 mg/l	OECD 203	Pimephales promelas
	EC50 (waterflea)	> 14 mg/l	OECD 202	Daphnia magna
	IC50 (alga)	2,5 mg/l	OECD 201	Desmodesmus subspicatus
	Ultimate aerobic biodegradation (%)	15 %	OECD 301 F	



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1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphtyl)ethan-1-one	Log P(ow)	3,5100		
	LC50 (fish)	1,3 mg/l	OECD 203	----
	EC50 (waterflea)	1,38 mg/l	OECD 202	----
	IC50 (algae)	> 2,6 mg/l	OECD 201	----
3-Methylcyclopentadecenone	Log P(ow)	5,23		
	BCF	600		
	LC50 (fish)	0,22 mg/l	----	----
	EC50 (waterflea)	0,39 mg/l	----	Daphnia magna
	IC50 (algae)	> 30 mg/l	----	----
	Ultimate aerobic biodegradation (%)	43 %	OECD 301 D	
Allyl (cyclohexyloxy)acetate	Log P(ow)	5,91		
	LC50 (fish)	0,205 mg/l	OECD 203	Brachydanio rerio
	EC50 (waterflea)	11,3 mg/l	OECD 202	Daphnia magna
	IC50 (algae)	69,2 mg/l	OECD 201	Pseudokirchnerella subcapitata
	Ultimate aerobic biodegradation (%)	24 %	OECD 301 D	
	NOEC (waterflea) - chronic	3,2 mg/l.d	OECD 202	Daphnia magna
	Log P(ow)	2,64		

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

UN nr. : UN 3082

14.2. UN proper shipping name

Transport name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Hexyl salicylate ; 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphtyl)ethan-1-one)

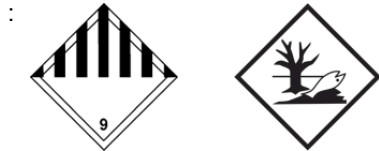
Transport name (IMDG, IATA) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Hexyl salicylate ; 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphtyl)ethan-1-one)

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 : C/D



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
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

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. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

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 2015/830 (REACH), Regulation (EC) No 1272/2008 (CLP) and other regulations.

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 2015/830 dated 28 May 2015 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
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:

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.
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:

H302	Harmful if swallowed.
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.



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Number format : "," used as decimal separator.

End of safety data sheet.