



# 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 : LIMPRO PERFUME CARD COTTON FRESH  
Product code : LIM-066, LP1V017  
UFI : RF10-D0A8-G00J-X1D9

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

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

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

Supplier : Dovox B.V.  
Leemansweg 40  
6827 BX Arnhem, 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 2.  
(1272/2008/EC)  
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 ((EU) 1272/2008):

Hazard pictograms :



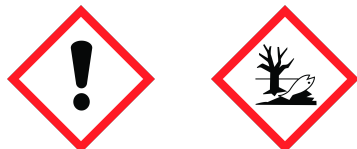
Signal word : Warning

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 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.  
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 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 ; 3,7-Dimethylnona-1,6-dien-3-ol ; 4-tert-Butylcyclohexyl acetate ; Linalool ; 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-ones (isomers) ; Benzyl salicylate ; Hexyl salicylate ; Dodecanal ; Reaction mass of 3,5-dimethylcyclohex-3-ene-1-carbaldehyde and 2,4-dimethylcyclohex-3-ene-1-carbaldehyde ; 3-Methylcyclopentadecenone .

### 2.3. Other hazards

Other information : Does not contain PBT or vPvB substances. Human health: This product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Regulation (EU) 2017/2100 or Regulation (EU) 2018/605. Environment: This product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Regulation (EU) 2017/2100 or Regulation (EU) 2018/605.

## SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

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### 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 |
| Reaction mass of 3a,4,5,6,7,7a-hexahydro-4,7-methanoinden-5-yl acetate and 3a,4,5,6,7,7a-hexahydro-4,7-methanoinden-6-yl acetate | 5 - < 10                | -----      | 911-369-0 |        |                  |
| 3,7-Dimethylnona-1,6-dien-3-ol                                                                                                   | 5 - < 10                | 10339-55-6 | 233-732-6 |        | 01-2119969272-32 |
| 3,5,5-Trimethylhexyl acetate                                                                                                     | 5 - < 10                | 58430-94-7 | 261-245-9 |        |                  |
| 4-tert-Butylcyclohexyl acetate                                                                                                   | 5 - < 10                | 32210-23-4 | 250-954-9 |        | 01-2119976286-24 |
| 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 |
| 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-ones (isomers)                                               | 2,5 - < 5               | -----      | 915-730-3 |        | 01-2119489989-04 |



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|----------------------------------------------------------------------------------------------------------|-----------|------------|-----------|--|------------------|
| Benzyl acetate                                                                                           | 1 - < 5   | 140-11-4   | 205-399-7 |  | 01-2119638272-42 |
| Tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans)                                  | 1 - < 5   | 63500-71-0 | 405-040-6 |  | 01-2119455547-30 |
| 2-Phenylethanol                                                                                          | 1 - < 5   | 60-12-8    | 200-456-2 |  | 01-2119963921-31 |
| 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 |
| Cis-2-tert-butylcyclohexyl acetate                                                                       | 1 - < 5   | 20298-69-5 | 243-718-1 |  | 01-2119970713-33 |
| Benzyl salicylate                                                                                        | 1 - < 5   | 118-58-1   | 204-262-9 |  | 01-2119969442-31 |
| Hexyl salicylate                                                                                         | 1 - < 2,5 | 6259-76-3  | 228-408-6 |  | 01-2119638275-36 |
| Dodecanal                                                                                                | 0,1 - < 1 | 112-54-9   | 203-983-6 |  | 01-2119969441-33 |
| Allyl (3-methylbutoxy)acetate                                                                            | 0,1 - < 1 | 67634-00-8 | 266-803-5 |  | 01-2120795456-39 |
| Allyl (cyclohexyloxy)acetate                                                                             | 0,1 - < 1 | 68901-15-5 | 272-657-3 |  | 01-2120770514-54 |
| 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 |
| 3-Methylcyclopentadecenone                                                                               | 0,1 - < 1 | 82356-51-2 | 429-900-5 |  | 01-0000017618-62 |

| 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                    |
| Reaction mass of 3a,4,5,6,7,7a-hexahydro-4,7-methanoinden-5-yl acetate and 3a,4,5,6,7,7a-hexahydro-4,7-methanoinden-6-yl acetate | Aquatic Chronic 3                                                         | H412                          |                     |                                  |
| 3,7-Dimethylnona-1,6-dien-3-ol                                                                                                   | Skin Irrit. 2; Skin Sens. 1B; Eye Irrit. 2                                | H315; H317; H319              | GHS07               |                                  |
| 3,5,5-Trimethylhexyl acetate                                                                                                     | Aquatic Chronic 2                                                         | H411                          | GHS09               |                                  |
| 4-tert-Butylcyclohexyl acetate                                                                                                   | Skin Sens. 1B                                                             | H317                          | GHS07               |                                  |
| Linalool                                                                                                                         | Skin Irrit. 2; Skin Sens. 1B; Eye Irrit. 2                                | H315; H317; H319              | GHS07               |                                  |
| 3-Methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one                                                                     | Aquatic Chronic 2                                                         | H411                          | GHS09               |                                  |
| 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-ones (isomers)                                               | Skin Irrit. 2; Skin Sens. 1B; Aquatic Chronic 1                           | H315; H317; H410              | GHS07; GHS09        |                                  |
| Benzyl acetate                                                                                                                   | Aquatic Chronic 3                                                         | H412                          |                     |                                  |
| Tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans)                                                          | Eye Irrit. 2                                                              | H319                          | GHS07               |                                  |
| 2-Phenylethanol                                                                                                                  | Acute Tox. 4; Eye Irrit. 2                                                | H302; H319                    | GHS07               |                                  |
| 3a,4,5,6,7,7a-Hexahydro-4,7-methano-1H-inden-6-yl propionate                                                                     | Aquatic Chronic 2                                                         | H411                          | GHS09               |                                  |
| Cis-2-tert-butylcyclohexyl acetate                                                                                               | Aquatic Chronic 2                                                         | H411                          | GHS09               |                                  |
| Benzyl salicylate                                                                                                                | Eye Irrit. 2; Aquatic Chronic 3; Skin Sens. 1B                            | H319; H412; H317              | GHS07               |                                  |
| Hexyl salicylate                                                                                                                 | Skin Irrit. 2; Skin Sens. 1B; Repr. 2; Aquatic Acute 1; Aquatic Chronic 1 | H315; H317; H361d; H400; H410 | GHS07; GHS08; GHS09 | M (acute) = 1<br>M (chronic) = 1 |
| Dodecanal                                                                                                                        | Skin Irrit. 2; Skin Sens. 1B; Eye Irrit. 2                                | H315; H317; H319              | GHS07               |                                  |



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|                                                                                                          |                                                                |                        |              |                                  |
|----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|------------------------|--------------|----------------------------------|
| 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<br>M (chronic) = 1 |
| Allyl (cyclohexyloxy)acetate                                                                             | Acute Tox. 4; Aquatic Acute 1; Aquatic Chronic 1               | H302; H400; H410       | GHS07; GHS09 | M (acute) = 1<br>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 |                                  |
| 3-Methylcyclopentadecenone                                                                               | Skin Sens. 1B; Aquatic Acute 1; Aquatic Chronic 1              | H317; H400; H410       | GHS07; GHS09 | M (acute) = 1<br>M (chronic) = 1 |

[1] Non classified substance for which a legal or recommended limit value applies. 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 and combustion 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 eyes and unnecessary contact to skin. 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  |
|----------------|---------|---------------------------------|----------------------------------|----------|---------|
| Benzyl acetate |         | 5                               | -                                |          | MAC: LT |



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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            |                  |                 |                      | 7 mg/kg bw/day     |
| alpha-Hexylcinnamaldehyde                                                                                                        | Inhalation        |                  |                 |                      | 24.7 mg/m3         |
|                                                                                                                                  | Inhalation        | 6,28 mg/m3       |                 |                      | 0,078 mg/m3        |
|                                                                                                                                  | Dermal            | 0,525 mg/kg bw   |                 | 0,525 mg/kg bw/day   | 18,2 mg/kg bw/day  |
| Reaction mass of 3a,4,5,6,7,7a-hexahydro-4,7-methanoinden-5-yl acetate and 3a,4,5,6,7,7a-hexahydro-4,7-methanoinden-6-yl acetate | Inhalation        |                  |                 |                      | 11,75 mg/m3        |
| 3,7-Dimethylnona-1,6-dien-3-ol                                                                                                   | Dermal            |                  |                 |                      | 3,33 mg/kg bw/day  |
|                                                                                                                                  | Inhalation        |                  | 18 mg/m3        |                      | 3 mg/m3            |
|                                                                                                                                  | Dermal            | 1,6 mg/kg bw     | 5,5 mg/kg bw    | 1,6 mg/kg bw/day     | 2,7 mg/kg bw/day   |
| 3,5,5-Trimethylhexyl acetate                                                                                                     | Inhalation        |                  |                 |                      | 0,94 mg/m3         |
|                                                                                                                                  | Dermal            |                  |                 |                      | 0,13 mg/kg bw/day  |
| 4-tert-Butylcyclohexyl acetate                                                                                                   | Inhalation        |                  |                 |                      | 4.93 mg/m3         |
|                                                                                                                                  | Dermal            |                  |                 |                      | 1.4 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   |
| 3-Methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one                                                                     | Inhalation        |                  |                 |                      | 8.22 mg/m3         |
|                                                                                                                                  | Dermal            |                  |                 |                      | 0.375 mg/kg bw/day |
| 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8-tetramethyl-2-naphthyl)ethan-1-ones (isomers)                                                 | Inhalation        |                  |                 |                      | 30 mg/m3           |
|                                                                                                                                  | Dermal            |                  |                 | 0,648 mg/kg bw/day   | 28,7 mg/kg bw/day  |
| Benzyl acetate                                                                                                                   | Inhalation        |                  |                 |                      | 9 mg/m3            |
|                                                                                                                                  | Dermal            |                  |                 |                      | 2.5 mg/kg bw/day   |
| 2-Phenylethanol                                                                                                                  | Inhalation        |                  |                 |                      | 59,9 mg/m3         |
|                                                                                                                                  | Dermal            |                  |                 |                      | 21,2 mg/kg bw/day  |
| Cis-2-tert-butylcyclohexyl acetate                                                                                               | Inhalation        |                  |                 |                      | 62.1 mg/m3         |
|                                                                                                                                  | Dermal            |                  |                 |                      | 17.6 mg/kg bw/day  |
| Benzyl salicylate                                                                                                                | Inhalation        |                  |                 |                      | 7,8 mg/m3          |
|                                                                                                                                  | Dermal            |                  |                 |                      | 2,21 mg/kg bw/day  |
| Hexyl salicylate                                                                                                                 | Dermal            | 0,885 mg/kg bw   |                 | 0,885 mg/kg bw/day   | 6,4 mg/kg bw/day   |
|                                                                                                                                  | Inhalation        |                  |                 |                      | 1.7 mg/m3          |
| Dodecanal                                                                                                                        | Inhalation        |                  |                 |                      | 49,7 mg/m3         |
|                                                                                                                                  | Inhalation        |                  |                 |                      | 14,1 mg/kg bw/day  |
|                                                                                                                                  | Dermal            |                  |                 | 0,00057 mg/kg bw/day |                    |
| Allyl (3-methylbutoxy)acetate                                                                                                    | Dermal            |                  |                 |                      | 1,4 mg/kg bw/day   |
|                                                                                                                                  | Inhalation        |                  |                 |                      | 4,93 mg/m3         |
| Allyl (cyclohexyloxy)acetate                                                                                                     | Inhalation        |                  |                 |                      | 3,16 mg/m3         |
|                                                                                                                                  | Dermal            |                  |                 |                      | 0,448 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 |

Derived no-effect level (DNEL) for consumers:

| Chemical name | Route of exposure | DNEL, short-term | DNEL, long-term |
|---------------|-------------------|------------------|-----------------|
|---------------|-------------------|------------------|-----------------|



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|                                                                                                                                  |            | 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    |
| alpha-Hexylcinnamaldehyde                                                                                                        | Inhalation | 4,71 mg/m3      |                 |                     | 0,019 mg/m3         |
|                                                                                                                                  | Dermal     | 0,0787 mg/kg bw |                 | 0,0787 mg/kg bw/day | 9,11 mg/kg bw/day   |
|                                                                                                                                  | Oral       |                 |                 |                     | 0,056 mg/kg bw/day  |
| Reaction mass of 3a,4,5,6,7,7a-hexahydro-4,7-methanoinden-5-yl acetate and 3a,4,5,6,7,7a-hexahydro-4,7-methanoinden-6-yl acetate | Inhalation |                 |                 |                     | 2,9 mg/m3           |
|                                                                                                                                  | Dermal     |                 |                 |                     | 1,67 mg/kg bw/day   |
|                                                                                                                                  | Oral       |                 |                 |                     | 1,67 mg/kg bw/day   |
| 3,7-Dimethylnona-1,6-dien-3-ol                                                                                                   | Inhalation |                 | 4,4 mg/m3       |                     | 0,74 mg/m3          |
|                                                                                                                                  | Dermal     | 1,6 mg/kg bw    | 2,7 mg/kg bw    | 1,6 mg/kg bw/day    | 1,4 mg/kg bw/day    |
|                                                                                                                                  | Oral       |                 | 1,3 mg/kg bw    |                     | 0,2 mg/kg bw/day    |
| 3,5,5-Trimethylhexyl acetate                                                                                                     | Inhalation |                 |                 |                     | 0,23 mg/m3          |
|                                                                                                                                  | Dermal     |                 |                 |                     | 0,07 mg/kg bw/day   |
|                                                                                                                                  | Oral       |                 |                 |                     | 0,07 mg/kg bw/day   |
| 4-tert-Butylcyclohexyl acetate                                                                                                   | Inhalation |                 |                 |                     | 0,87 mg/m3          |
|                                                                                                                                  | Dermal     |                 |                 |                     | 0,5 mg/kg bw/day    |
|                                                                                                                                  | Oral       |                 |                 |                     | 0,5 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   |
| 3-Methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one                                                                     | Inhalation |                 |                 |                     | 1.45 mg/m3          |
|                                                                                                                                  | Dermal     |                 |                 |                     | 0.0446 mg/kg bw/day |
|                                                                                                                                  | Oral       |                 |                 |                     | 0.0355 mg/kg bw/day |
| 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-ones (isomers)                                               | Inhalation |                 |                 |                     | 9 mg/m3             |
|                                                                                                                                  | Dermal     |                 |                 | 0,38 mg/kg bw/day   | 17,2 mg/kg bw/day   |
|                                                                                                                                  | Oral       |                 |                 |                     | 3 mg/kg bw/day      |
| Benzyl acetate                                                                                                                   | Inhalation |                 |                 |                     | 2.2 mg/m3           |
|                                                                                                                                  | Dermal     |                 |                 |                     | 1.3 mg/kg bw/day    |
|                                                                                                                                  | Oral       |                 | 6,25 mg/kg bw   |                     | 1.3 mg/kg bw/day    |
| 2-Phenylethanol                                                                                                                  | Inhalation |                 |                 |                     | 17,7 mg/m3          |
|                                                                                                                                  | Dermal     |                 |                 |                     | 12,7 mg/kg bw/day   |
|                                                                                                                                  | Oral       |                 | 5,1 mg/kg bw    |                     | 5,1 mg/kg bw/day    |
| Cis-2-tert-butylcyclohexyl acetate                                                                                               | Inhalation |                 |                 |                     | 18.4 mg/m3          |
|                                                                                                                                  | Dermal     |                 |                 |                     | 10.6 mg/kg bw/day   |
|                                                                                                                                  | Oral       |                 |                 |                     | 10.6 mg/kg bw/day   |
| Benzyl salicylate                                                                                                                | Inhalation |                 |                 |                     | 1,37 mg/m3          |
|                                                                                                                                  | Dermal     |                 |                 |                     | 0,79 mg/kg bw/day   |
|                                                                                                                                  | Oral       |                 |                 |                     | 0,79 mg/kg bw/day   |
| Hexyl salicylate                                                                                                                 | Dermal     | 0.4425 mg/kg bw |                 | 0,4425 mg/kg bw/day | 3,2 mg/kg bw/day    |
|                                                                                                                                  | Inhalation |                 |                 |                     | 0,4 mg/m3           |
|                                                                                                                                  | Oral       |                 |                 |                     | 0,3 mg/kg bw/day    |
| Dodecanal                                                                                                                        | Inhalation |                 |                 |                     | 12,3 mg/m3          |



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|----------------------------------------------------------------------------------------------------------|------------|--|--|----------------------|--------------------|
|                                                                                                          | Dermal     |  |  | 0,00028 mg/kg bw/day | 7 mg/kg bw/day     |
| Allyl (3-methylbutoxy)acetate                                                                            | Oral       |  |  |                      | 7 mg/kg bw/day     |
|                                                                                                          | Oral       |  |  |                      | 0,5 mg/kg bw/day   |
| Allyl (cyclohexyloxy)acetate                                                                             | Dermal     |  |  |                      | 0,87 mg/kg bw/day  |
|                                                                                                          | Inhalation |  |  |                      | 0,557 mg/m3        |
|                                                                                                          | Dermal     |  |  |                      | 0,16 mg/kg bw/day  |
|                                                                                                          | Oral       |  |  |                      | 0,16 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 |

Predicted no-effect concentration (PNEC):

| Chemical name                                                | Route of exposure  | Fresh water  | Marine water  |                  |
|--------------------------------------------------------------|--------------------|--------------|---------------|------------------|
| 2,6-Dimethyloct-7-en-2-ol                                    | Water              | 0,0278 mg/l  | 0,0027 mg/l   |                  |
|                                                              | Sediment           | 0,594 mg/kg  | 0,0594 mg/kg  |                  |
|                                                              | Intermittent water |              |               | 0,278 mg/l       |
|                                                              | STP                |              |               | 10 mg/l          |
|                                                              | Soil               |              |               | 0,103 mg/kg      |
|                                                              | Oral               |              |               | 111 mg/kg food   |
| alpha-Hexylcinnamaldehyde                                    | Water              | 0.001 mg/l   |               |                  |
|                                                              | Sediment           | 3.2 mg/kg    | 0.064 mg/kg   |                  |
|                                                              | Intermittent water |              |               | 0,03 mg/l        |
|                                                              | STP                |              |               | 10 mg/l          |
|                                                              | Soil               |              |               | 0.398 mg/kg      |
|                                                              | Oral               |              |               | 6.6 mg/kg food   |
| 3,7-Dimethylnona-1,6-dien-3-ol                               | Water              | 0,023 mg/l   | 0,0023 mg/l   |                  |
|                                                              | 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  |
| 3,5,5-Trimethylhexyl acetate                                 | Water              | 0,0077 mg/l  | 0,0007 mg/l   |                  |
|                                                              | Sediment           | 2,89 mg/kg   | 0,29 mg/kg    |                  |
|                                                              | Intermittent water |              |               | 0,077 mg/l       |
|                                                              | STP                |              |               | 10 mg/l          |
|                                                              | Soil               |              |               | 0,573 mg/kg      |
|                                                              | Oral               |              |               | 2,66 mg/kg food  |
| 4-tert-Butylcyclohexyl acetate                               | Water              | 0,0053 mg/l  | 0,00053 mg/l  |                  |
|                                                              | Sediment           | 2,01 mg/kg   | 0,21 mg/kg    |                  |
|                                                              | Intermittent water |              |               | 0,053 mg/l       |
|                                                              | STP                |              |               | 12,2 mg/l        |
|                                                              | Soil               |              |               | 0,42 mg/kg       |
|                                                              | Oral               |              |               | 66,76 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          |
|                                                              | Soil               |              |               | 0,327 mg/kg      |
|                                                              | Oral               |              |               | 7,8 mg/kg food   |
| 3-Methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one | Water              | 0.00143 mg/l | 0.000143 mg/l |                  |
|                                                              | Sediment           | 0.443 mg/kg  | 0.0443 mg/kg  |                  |
|                                                              | STP                |              |               | 10 mg/l          |
|                                                              | Soil               |              |               | 0.0878 mg/kg     |



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| 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-ones (isomers)                       | Water              | 0.025 mg/l   | 0.0025 mg/l   |                 |
|                                                                                                          | Sediment           | 3,73 mg/kg   | 0,75 mg/kg    |                 |
|                                                                                                          | Intermittent water |              |               | 0,0013 mg/l     |
|                                                                                                          | STP                |              |               | 10 mg/l         |
|                                                                                                          | Soil               |              |               | 2.7 mg/kg       |
| Benzyl acetate                                                                                           | Oral               |              |               | 26.7 mg/kg food |
|                                                                                                          | Water              | 0.018 mg/l   | 0.002 mg/l    |                 |
|                                                                                                          | Sediment           | 0.526 mg/kg  | 0.053 mg/kg   |                 |
|                                                                                                          | Intermittent water |              |               | 0,04 mg/l       |
|                                                                                                          | STP                |              |               | 8,55 mg/l       |
| 2-Phenylethanol                                                                                          | Soil               |              |               | 0.094 mg/kg     |
|                                                                                                          | Water              | 0,215 mg/l   | 0,0215 mg/l   |                 |
|                                                                                                          | Sediment           | 1,454 mg/kg  | 0,1454 mg/kg  |                 |
|                                                                                                          | Intermittent water |              |               | 2,15 mg/l       |
|                                                                                                          | STP                |              |               | 10 mg/l         |
| Cis-2-tert-butylcyclohexyl acetate                                                                       | Soil               |              |               | 0,164 mg/kg     |
|                                                                                                          | Water              | 0.057 mg/l   | 0.006 mg/l    |                 |
|                                                                                                          | Sediment           | 7.62 mg/kg   | 0.762 mg/kg   |                 |
|                                                                                                          | Intermittent water |              |               | 0,017 mg/l      |
|                                                                                                          | STP                |              |               | 10 mg/l         |
| Benzyl salicylate                                                                                        | Soil               |              |               | 4.4 mg/kg       |
|                                                                                                          | Water              | 0.001 mg/l   | 0 mg/l        |                 |
|                                                                                                          | Sediment           | 0.583 mg/kg  | 0.058 mg/kg   |                 |
|                                                                                                          | Intermittent water |              |               | 0,01030 mg/l    |
|                                                                                                          | STP                |              |               | 10 mg/l         |
| Hexyl salicylate                                                                                         | Soil               |              |               | 1.41 mg/kg      |
|                                                                                                          | Oral               |              |               | 52.7 mg/kg food |
|                                                                                                          | Water              | 0 mg/l       | 0 mg/l        |                 |
|                                                                                                          | Sediment           | 0,272 mg/kg  | 0.027 mg/kg   |                 |
|                                                                                                          | Intermittent water |              |               | 0,0036 mg/l     |
| Dodecanal                                                                                                | STP                |              |               | 10 mg/l         |
|                                                                                                          | Soil               |              |               | 0.054 mg/kg     |
|                                                                                                          | Water              | 0,0035 mg/l  | 0,00035 mg/l  |                 |
|                                                                                                          | Sediment           | 1,41 mg/kg   | 0,141 mg/kg   |                 |
|                                                                                                          | Intermittent water |              |               | 0,035 mg/l      |
| Allyl (3-methylbutoxy)acetate                                                                            | STP                |              |               | 10 mg/l         |
|                                                                                                          | Soil               |              |               | 0,278 mg/kg     |
|                                                                                                          | Oral               |              |               | 313 mg/kg food  |
|                                                                                                          | Water              | 0.00077 mg/l | 0.00008 mg/l  |                 |
|                                                                                                          | Sediment           | 0.0089 mg/kg | 0.0009 mg/kg  |                 |
| Allyl (cyclohexyloxy)acetate                                                                             | STP                |              |               | 0.0089 mg/l     |
|                                                                                                          | Soil               |              |               | 0.0013 mg/kg    |
|                                                                                                          | Water              | 0,00205 mg/l | 0,000205 mg/l |                 |
|                                                                                                          | Sediment           | 0,0387 mg/kg | 0,00387 mg/kg |                 |
|                                                                                                          | STP                |              |               | 0,3 mg/l        |
| Reaction mass of 3,5-dimethylcyclohex-3-ene-1-carbaldehyde and 2,4-dimethylcyclohex-3-ene-1-carbaldehyde | Soil               |              |               | 0,375 mg/kg     |
|                                                                                                          | 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     |
| 3-Methylcyclopentadecenone                                                                               | Water              | 0.00242 mg/l | 0.0022 mg/l   |                 |
|                                                                                                          | Sediment           | 3.66 mg/kg   | 0.37 mg/kg    |                 |



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|--|------|--|------------------|
|  | STP  |  | 10 mg/l          |
|  | Soil |  | 2.34 mg/kg       |
|  | Oral |  | 111.1 mg/kg food |

## 8.2. Exposure controls

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

Hygienic measures : When using do not eat, drink or smoke.

Personal protective equipment:

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



Body protection : Wear appropriate protective clothing, overalls or suit, and similar boots in accordance with EN 365/367 resp. 345. Suitable material: 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.  $\pm 0,5$  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.

Environmental exposure controls : Avoid release to the environment.

## 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                             | : $> 100$ °C      |                                                                                                                  |
| Auto ignition temperature               | : $> 230$ °C      |                                                                                                                  |
| Boiling point/boiling range             | : $> 100$ °C      |                                                                                                                  |
| Melting point/melting range             | : Not known.      |                                                                                                                  |
| Explosive properties                    | : Not explosive.  |                                                                                                                  |
| Explosion limits (% in air)             | : Not known.      | Lower explosion limit in air (%): 0,9 ( Linalool )<br>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.      |                                                                                                                  |
| Relative vapour density                 | : Not known       | (air = 1)                                                                                                        |



Relative density (20°C) : Not known.  
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: 75 %. ATE: > 5 mg/l. Not classified due to lack of data.  
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: > 4239 mg/kg.bw. Ingredients of unknown toxicity: < 1 %. ATE: > 5000 mg/kg.bw. Low toxicity. Not classified - based on available data, the classification criteria are not met.  
Corrosion/irritation : Irritant. May cause redness. Prolonged contact may dry out and defat the skin.  
Sensitisation : May cause sensitisation by skin contact. May produce an allergic reaction.  
Mutagenicity : Does not contain mutagenic substances. Not classified - based on available data, the classification criteria are not met.

#### Eye contact

Corrosion/irritation : Irritant.



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## Ingestion

- Acute toxicity : Calculated LD50: > 3072 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.
- Target organ toxicity (SE) : No specific effects and/or symptoms are known.
- Target organ toxicity (RE) : No specific effects and/or symptoms are known.
- Aspiration : Not classified - based on available data, the classification criteria are not met. Does not contain substances with an aspiration hazard.
- Corrosion/irritation : No specific effects and/or symptoms are known.
- 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 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    |                        |
|                                | 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                 |
|                                | NOAEL (development, oral)      | 100 mg/kg bw/d      | OECD 421    | Rat                    |
| alpha-Hexylcinnamaldehyde      | 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                    |
|                                | LD50 (oral)                    | 5000 mg/kg bw       | -----       | Rat                    |
|                                | LD50 (dermal)                  | > 5000 mg/kg bw     | -----       | Rabbit                 |
| 3,7-Dimethylnona-1,6-dien-3-ol | 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 |
|                                | Skin irritation                | Irritant            | -----       | Rabbit                 |
|                                | Eye irritation                 | Irritant            | -----       | Rabbit                 |
|                                | LD50 (oral)                    | 5000 mg/kg bw       | -----       | Rat                    |
|                                | LD50 (dermal)                  | > 5000 mg/kg bw     |             | Rabbit                 |
|                                | Eye irritation                 | Non-irritant        |             | Rabbit                 |
| 4-tert-Butylcyclohexyl acetate |                                |                     |             |                        |
|                                |                                |                     |             |                        |
|                                |                                |                     |             |                        |
|                                |                                |                     |             |                        |



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|------------------------------------------------------------------------------------|----------------------------------------|-------------------|-------------|------------------------|
| Linalool                                                                           | Skin irritation                        | Non-irritant      | Read across | Rabbit                 |
|                                                                                    | NOAEL (oral) - estimate                | 710 mg/kg bw/d    |             |                        |
|                                                                                    | 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                    |
| 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-ones (isomers) | LD50 (oral)                            | > 5000 mg/kg bw   | OECD 401    | Rat                    |
|                                                                                    | LD50 (dermal)                          | > 5000 mg/kg bw   | OECD 402    | Rat                    |
|                                                                                    | Skin sensitisation                     | Sensitizing.      | OECD 429    | Mouse                  |
|                                                                                    | Skin irritation                        | Irritant          | -----       | -----                  |
|                                                                                    | Eye irritation - estimate              | Non-irritant      | QSAR        | -----                  |
|                                                                                    | NOAEL (oral)                           | 120 mg/kg bw/d    | OECD 408    | Rat                    |
|                                                                                    | Mutagenicity                           | Negative          | OECD 471    | Salmonella typhimurium |
|                                                                                    | NOAEL (development, oral)              | 480 mg/kg bw/d    | OECD 414    | Rat                    |
|                                                                                    | Genotoxicity - in vitro                | Not genotoxic     | OECD 473    |                        |
|                                                                                    | Genotoxicity - in vivo                 | Not genotoxic     | OECD 474    | Mouse                  |
|                                                                                    | NOAEL (fertility, oral)                | > 300 mg/kg bw/d  |             | Rat                    |
|                                                                                    | LD50 (oral)                            | > 5000 mg/kg bw   | -----       | Rat                    |
|                                                                                    | LD50 (dermal)                          | > 2000 mg/kg bw   | -----       | Rabbit                 |
|                                                                                    | Eye irritation                         | Irritant          | -----       | Rabbit                 |
| Tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans)            | Skin irritation                        | Non-irritant      | -----       | Rabbit                 |
|                                                                                    | Skin irritation                        | Non-irritant      | Patch test  | Human                  |
|                                                                                    | LD50 (oral)                            | 1609 mg/kg bw     | -----       | Rat                    |
|                                                                                    | NOAEL (dermal)                         | 510 mg/kg bw/d    | OECD 411    | Rat                    |
|                                                                                    | Genotoxicity - in vitro                | Not genotoxic     | OECD 476    |                        |
|                                                                                    | NOAEL (development, oral)              | 4,3 mg/kg bw/d    |             | Rat                    |
|                                                                                    | Eye irritation                         | Irritant          | -----       | Rabbit                 |
|                                                                                    | Skin irritation                        | Slightly irritant | -----       | Rabbit                 |
|                                                                                    | LD50 (dermal)                          | 2535 mg/kg bw     | OECD 402    | Rabbit                 |
|                                                                                    | Skin sensitisation - estimate          | Not sensitizing   |             |                        |
|                                                                                    | LC50 (inhalation)                      | > 4630 mg/m3      |             | Rat                    |
|                                                                                    | NOAEL (developmental toxicity, dermal) | 140 mg/kg bw/d    |             | Rat                    |
|                                                                                    | Mutagenicity                           | Negative          | OECD 471    | Salmonella typhimurium |
|                                                                                    | LC50 (inhalation) - estimate           | > 5000 mg/m3      |             | Rat                    |
| 2-Phenylethanol                                                                    | NOAEL (fertility, oral)                | 158 mg/kg bw/d    | OECD 421    | Rat                    |
|                                                                                    | Skin sensitisation                     | 725 ug/cm2        | OECD 429    | Mouse                  |
|                                                                                    | NOAEL (oral)                           | 177 mg/kg bw/d    | OECD 408    | Rat                    |
|                                                                                    | Skin irritation                        | Non-irritant      | OECD 404    | Rabbit                 |
|                                                                                    |                                        |                   |             |                        |
| Benzyl salicylate                                                                  |                                        |                   |             |                        |
|                                                                                    |                                        |                   |             |                        |
|                                                                                    |                                        |                   |             |                        |
|                                                                                    |                                        |                   |             |                        |
|                                                                                    |                                        |                   |             |                        |



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|----------------------------------------------------------------------------------------------------------|--------------------------------|---------------------|-------------|------------------------|
| Hexyl salicylate                                                                                         | NOAEL (development, oral)      | 158 mg/kg bw/d      | OECD 421    | Rat                    |
|                                                                                                          | Mutagenicity                   | Negative            | OECD 471    | Salmonella typhimurium |
|                                                                                                          | Genotoxicity - in vitro        | Not genotoxic       | OECD 476    | Chinese Hamster        |
|                                                                                                          | Eye irritation                 | Moderately irritant | -----       | Rabbit                 |
|                                                                                                          | LD50 (oral) - estimate         | > 2000 mg/kg bw     | Read across |                        |
|                                                                                                          | LD50 (dermal) - estimate       | > 2000 mg/kg bw     | Read across |                        |
|                                                                                                          | LD50 (oral)                    | > 5000 mg/kg bw     | OECD 401    | Rat                    |
|                                                                                                          | NOAEL (inhalation)             | 249 mg/m3           | OECD 412    | Rat                    |
|                                                                                                          | LD50 (dermal)                  | > 5000 mg/kg bw     | OECD 402    | Rabbit                 |
|                                                                                                          | NOAEL (oral) - estimate        | 50 mg/kg bw/d       | Read across |                        |
|                                                                                                          | Mutagenicity                   | Negative            | OECD 471    | Salmonella typhimurium |
|                                                                                                          | Genotoxicity - in vitro        | Not genotoxic       | OECD 476    | Chinese Hamster        |
|                                                                                                          | Genotoxicity - in vivo         | Not genotoxic       | -----       | Mouse                  |
|                                                                                                          | NOAEL (development) - estimate | Not teratogenic     | Read across |                        |
| Dodecanal                                                                                                | NOAEL (fertility) - estimate   | Not reprotoxic      | Read across |                        |
|                                                                                                          | Eye irritation                 | Non-irritant        | OECD 405    | Rabbit                 |
|                                                                                                          | Skin irritation                | Moderately irritant | OECD 404    | 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                    |
|                                                                                                          | Skin irritation - estimate     | Irritant            | Read across | Rabbit                 |
|                                                                                                          | Eye irritation - estimate      | Irritant            | Read across | Rabbit                 |
|                                                                                                          | Skin sensitisation - estimate  | Sensitizing.        | Read across | Mouse                  |
| Reaction mass of 3,5-dimethylcyclohex-3-ene-1-carbaldehyde and 2,4-dimethylcyclohex-3-ene-1-carbaldehyde | 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                    |
|                                                                                                          | NOAEL (fertility) - estimate   | Not reprotoxic      | Read across | Rat                    |
|                                                                                                          | Mutagenicity                   | Negative            | OECD 471    | Salmonella typhimurium |
|                                                                                                          | NOAEL (oral) - estimate        | 150 mg/kg bw/d      | Read across | Rat                    |
|                                                                                                          | Skin sensitisation             | Not sensitizing     | OECD 406    | Guinea pig             |
| 3-Methylcyclopentadecenone                                                                               | 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                 |
|                                                                                                          |                                |                     |             |                        |

## 11.2. Information on other hazards



Endocrine disrupting properties : This product does not contain components considered to have endocrine disrupting properties.  
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): 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 assessment

PBT/vPvB assessment : Does not contain PBT or vPvB substances.

### 12.6. Endocrine disrupting properties

Endocrine disrupting properties : This product does not contain components considered to have endocrine disrupting properties.

### 12.7. Other adverse effects

Other adverse effects : Not applicable.

Ecological information:

| Chemical name                                                | Property                            |             | Method     | Test animal                    |
|--------------------------------------------------------------|-------------------------------------|-------------|------------|--------------------------------|
| alpha-Hexylcinnamaldehyde                                    | NOEC (fish)                         | 0,93 mg/l   | OECD 203   | Pimephales promelas            |
|                                                              | LC50 (fish)                         | 1,7 mg/l    | OECD 203   | Pimephales promelas            |
|                                                              | Ultimate aerobic biodegradation (%) | 97 %        | OECD 301 F |                                |
|                                                              | IC50 (algae)                        | > 0,32 mg/l | OECD 201   | Desmodesmus subspicatus        |
| 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 (algae)                        | 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   | OECD 203   | Oncorhynchus mykiss            |
|                                                              | Ultimate aerobic biodegradation (%) | 61,8 %      | OECD 301 B |                                |
|                                                              | EC50 (waterflea) - estimate         | 3,04 mg/l   | -----      | Daphnia magna                  |
|                                                              | EC50 (waterflea)                    | 4,7 mg/l    | OECD 202   | Daphnia magna                  |
|                                                              | IC50 (algae)                        | > 20 mg/l   | OECD 201   | Desmodesmus subspicatus        |



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|------------------------------------------------------------------------------------|-------------------------------------|--------------|------------|--------------------------------|
| 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-ones (isomers) | Log P(ow)                           | 4,288        |            |                                |
|                                                                                    | Ultimate aerobic biodegradation (%) | 0 %          | OECD 301 C |                                |
|                                                                                    | LC50 (fish)                         | 1,3 mg/l     | OECD 203   | Lepomis macrochirus            |
|                                                                                    | NOEC (fish)                         | 2,2 mg/l     | OECD 203   | Lepomis macrochirus            |
|                                                                                    | NOEC (fish)                         | 0,16 mg/l.d  | OECD 210   | Brachydanio rerio              |
|                                                                                    | EC50 (waterflea)                    | 1,38 mg/l    | OECD 202   | Daphnia magna                  |
|                                                                                    | NOEC (waterflea) - chronic          | 0,028 mg/l.d | OECD 211   | Daphnia magna                  |
| 3a,4,5,6,7,7a-Hexahydro-4,7-methano-1H-inden-6-yl propionate                       | IC50 (algae)                        | > 2,6 mg/l   | OECD 201   | Desmodesmus subspicatus        |
|                                                                                    | Log P(ow)                           | 5,23         |            |                                |
|                                                                                    | BCF                                 | 391          |            |                                |
|                                                                                    | LC50 (fish)                         | 6,7 mg/l     | OECD 203   | Pimephales promelas            |
|                                                                                    | Ultimate aerobic biodegradation (%) | 15 %         | OECD 301 F |                                |
| Cis-2-tert-butylcyclohexyl acetate                                                 | EC50 (waterflea)                    | > 14 mg/l    | OECD 202   | Daphnia magna                  |
|                                                                                    | IC50 (algae)                        | 2,5 mg/l     | OECD 201   | Desmodesmus subspicatus        |
|                                                                                    | Log P(ow)                           | 3,5100       |            |                                |
|                                                                                    | LC50 (fish)                         | 5,6 mg/l     |            | Brachydanio rerio              |
|                                                                                    | EC50 (waterflea)                    | 17 mg/l      |            | Daphnia magna                  |
| Hexyl salicylate                                                                   | IC50 (algae)                        | 4,2 mg/l     | OECD 201   | Desmodesmus subspicatus        |
|                                                                                    | NOEC (algae)                        | 0,57 mg/l    | OECD 201   | Desmodesmus subspicatus        |
|                                                                                    | Ultimate aerobic biodegradation (%) | 43 %         | OECD 301 F |                                |
|                                                                                    | Log P(ow)                           | 4,7          |            |                                |
|                                                                                    | EC50 (waterflea)                    | 0,357 mg/l   | OECD 202   | Daphnia magna                  |
| Allyl (3-methylbutoxy)acetate                                                      | IC50 (algae)                        | 0,61 mg/l    | OECD 201   | Desmodesmus subspicatus        |
|                                                                                    | LC50 (fish) - estimate              | 1,34 mg/l    | -----      | Brachydanio rerio              |
|                                                                                    | Ultimate aerobic biodegradation (%) | 91 %         | OECD 301 F |                                |
|                                                                                    | NOEC (waterflea) - acute            | 0,140 mg/l   | OECD 202   | Daphnia magna                  |
|                                                                                    | Log P(ow)                           | 5,5000       |            |                                |
| Allyl (cyclohexyloxy)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 |                                |
|                                                                                    | Log P(ow)                           | 2,72         |            |                                |
| 3-Methylcyclopentadecenone                                                         | EC50 (waterflea)                    | 11,3 mg/l    | OECD 202   | Daphnia magna                  |
|                                                                                    | NOEC (waterflea) - chronic          | 3,2 mg/l.d   | OECD 202   | Daphnia magna                  |
|                                                                                    | Ultimate aerobic biodegradation (%) | 24 %         | OECD 301 D |                                |
|                                                                                    | IC50 (algae)                        | 69,2 mg/l    | OECD 201   | Pseudokirchnerella subcapitata |
|                                                                                    | LC50 (fish)                         | 0,205 mg/l   | OECD 203   | Brachydanio rerio              |
|                                                                                    | Log P(ow)                           | 2,64         |            |                                |
|                                                                                    | LC50 (fish)                         | 0,22 mg/l    | -----      | -----                          |



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|                                     |           |            |               |
|-------------------------------------|-----------|------------|---------------|
| Ultimate aerobic biodegradation (%) | 43 %      | OECD 301 D |               |
| EC50 (waterflea)                    | 0,39 mg/l | -----      | Daphnia magna |
| IC50 (alga)                         | > 30 mg/l | -----      | -----         |
| Log P(ow)                           | 5,91      |            |               |

## 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. : 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.

Other information : Exempted according to special provision 335.

IMDG (sea)

Class : This product is not classified according to IMDG.

Other information : Exempted according to special provision 335.

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).



|                                      |                                                                                                   |
|--------------------------------------|---------------------------------------------------------------------------------------------------|
| PIC Regulation                       | : Does not contain substances listed on the PIC list (Regulation EU 649/2012).                    |
| POP Regulation                       | : Does not contain substances listed on the POP list (Regulation EU 2019/1021).                   |
| Ozone Regulation                     | : Does not contain substances listed on the Ozone Depletion list (Regulation EU 1005/2009).       |
| Explosives Precursors Regulation     | : Does not contain substances listed on the Explosives Precursors list (Regulation EU 2019/1148). |
| Drug Precursors Regulation           | : Does not contain substances listed on the Drug Precursors list (Regulation EC 273/2004).        |
| SEVESO III Directive 2012/18/EU      |                                                                                                   |
| Hazard code                          | : E2                                                                                              |
| Hazard category                      | : Environmental hazard                                                                            |
| Qualifying quantity (tonnes) - lower | : 200                                                                                             |
| Qualifying quantity (tonnes) - upper | : 500                                                                                             |

## 15.2. Chemical safety assessment

Chemical safety assessment : A Chemical Safety Assessment has not been carried out.

## 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 used (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  | : The IMO International Code for construction and equipment of ships carrying dangerous chemicals in bulk.      |
| 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                                                                                     |
| PIC       | : The Prior Informed Consent procedure for the import and export of certain hazardous chemicals and pesticides. |
| POP       | : Persistent organic pollutants                                                                                 |
| PT        | : Product type                                                                                                  |
| REACH     | : Registration, Evaluation, Authorisation and Restriction of Chemicals                                          |
| RID       | : Regulations concerning the International Carriage of Dangerous Goods by Rail                                  |



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|          |                                                   |
|----------|---------------------------------------------------|
| 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:

|                    |                                                              |
|--------------------|--------------------------------------------------------------|
| 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.                      |
| 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.                                 |
| H330  | Fatal if inhaled.                                     |
| H315  | Causes skin irritation.                               |
| H317  | May cause an allergic skin reaction.                  |
| H319  | Causes serious eye irritation.                        |
| H361d | Suspected of damaging the unborn child.               |
| H400  | Very toxic to aquatic life.                           |
| H410  | Very toxic to aquatic life with long lasting effects. |
| H411  | Toxic to aquatic life with long lasting effects.      |
| H412  | Harmful to aquatic life with long lasting effects.    |

Advice on any training appropriate for workers: none.

|                         |                                  |
|-------------------------|----------------------------------|
| Country / Language code | : EC / EN                        |
| Number format           | : "," used as decimal separator. |

End of safety data sheet.