Kemetyl

# Safety data sheet

**According to Regulation (EU) No 2020/878**

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

### 1.1. Product identifier

Product name : SHELL AIRFRESHENER WALK ON THE BEACH
Product code : CRX781, AL53C; 9728150

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

Application : SU21 Consumer product. PC3 Air care products for vehicles. Airfreshener.

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

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

### 1.4. Emergency telephone number

EMERGENCY TELEPHONE NUMBER, for DOCTORS/FIRE BRIGADE/POLICE only:
PL - Telephone : +48 22 822 5390 (During office hours only)

## SECTION 2 HAZARDS IDENTIFICATION *

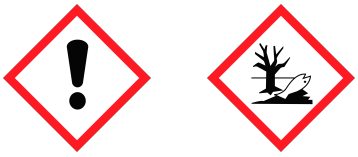
### 2.1. Classification of the substance or mixture

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

Human health hazards : Causes skin irritation. May cause an allergic skin reaction.
Physical/chemical hazards : Not classified as dangerous according to statutory EC-Directives.
Environmental hazards : Toxic to aquatic life with long lasting effects.

### 2.2. Label elements

Label elements (1272/2008/EC):
Hazard pictograms :



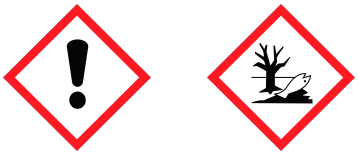
Signal word : Warning

H- and P-phrases :

| | |
|---|---|
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H411 | Toxic to aquatic life with long lasting effects. |
| P101 | If medical advice is needed, have product container or label at hand. |
| P102 | Keep out of reach of children. |
| P280 gloves | Wear protective gloves. |
| P273 | Avoid release to the environment. |
| P391 | Collect spillage. |
| P501 | Dispose of contents/container to an official chemical waste depot. |

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

Hazard pictograms :



Signal word : Warning

H- and P-phrases :

| | |
|---|---|
| H317 | May cause an allergic skin reaction. |
| P101 | If medical advice is needed, have product container or label at hand. |
| P102 | Keep out of reach of children. |
| P280 gloves | Wear protective gloves. |
| P302+P352 | IF ON SKIN: Wash with plenty of water/soap. |
| P333+P313 | If skin irritation or rash occurs: Get medical advice/attention. |
| P501 | Dispose of contents/container to an official chemical waste depot. |

Additional labelling (for all packaging sizes)

: Contains: 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphtyl)ethan-1-one ; dl-Limonene ; 7-Hydroxycitronellal ; Alpha-methyl-1,3-benzodioxole-5-propionaldehyde ; Coumarin ; 1-(2,6,6 -Trimethyl-3-cyclohexen-1-yl)-2-buten-1-one ; Linalyl acetate ; Linalool ; 2,2,6-Trimethyl-alpha-propylcyclohexanepropanol ; 3-(p-Ethylphenyl)-2,2-dimethylpropionaldehyde ; Pin-2(10)-ene ; Pin-2(3)-ene ; Eugenol ; Cinnamaldehyde ; Isoeugenol .

### 2.3. Other hazards

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

## SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS *

### 3.2. Mixtures

Product description : Mixture.

Information on hazardous substances:

| Substance name | Concentration (w/w) (%) | CAS nr. | EC number | Remark | REACH nr. |
|---|---|---|---|---|---|
| 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphtyl)ethan-1-one | 5 - < 10 | 54464-57-2 | 259-174-3 | | 01-2119489989-04 |
| 2,6-Dimethyloct-7-en-2-ol | 5 - < 10 | 18479-58-8 | 242-362-4 | | 01-2119457274-37 |
| dl-Limonene | 2,5 - < 5 | 138-86-3 | 205-341-0 | | |
| 7-Hydroxycitronellal | 1 - < 5 | 107-75-5 | 203-518-7 | | 01-2119973482-31 |
| Alpha-methyl-1,3-benzodioxole-5-propionaldehyde | 1 - < 2,5 | 1205-17-0 | 214-881-6 | | 01-2120740119-58 |
| Coumarin | 1 - < 5 | 91-64-5 | 202-086-7 | | 01-2119949300-45 |
| 1-(2,6,6-Trimethyl-3-cyclohexen-1-yl)-2-buten-1-one | 0,1 - < 1 | 57378-68-4 | 260-709-8 | | |
| Linalyl acetate | 0,1 - < 1 | 115-95-7 | 204-116-4 | | 01-2119454789-19 |
| Linalool | 0,1 - < 1 | 78-70-6 | 201-134-4 | | 01-2119474016-42 |
| 2,2,6-Trimethyl-alpha-propylcyclohexanepropanol | 0,1 - < 1 | 70788-30-6 | 274-892-7 | | |
| 3-(p-Ethylphenyl)-2,2-dimethylpropionaldehyde | 0,1 - < 1 | 67634-15-5 | 266-819-2 | | |
| Allyl (cyclohexyloxy)acetate | 0,1 - < 1 | 68901-15-5 | 272-657-3 | | 01-2120770514-54 |
| Pin-2(10)-ene | 0,1 - < 1 | 127-91-3 | 204-872-5 | | |
| Pin-2(3)-ene | 0,1 - < 1 | 80-56-8 | 201-291-9 | | |
| Eugenol | 0,1 - < 1 | 97-53-0 | 202-589-1 | | 01-2119971802-33 |

| | | | | | |
|---|---|---|---|---|---|
| p-Mentha-1,4-diene | 0,1 - < 1 | 99-85-4 | 202-794-6 | | |
| Cinnamaldehyde | 0,01 - < 0,1 | 104-55-2 | 203-213-9 | | |
| Isoeugenol | < 0,01 | 97-54-1 | 202-590-7 | | |

| Substance name | Hazard Class | H-phrases | Pictograms | |
|---|---|---|---|---|
| 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphtyl)ethan-1-one | Skin Irrit. 2; Skin Sens. 1B; Aquatic Chronic 1 | H315; H317; H410 | GHS07; GHS09 | M (chronic) = 1 |
| 2,6-Dimethyloct-7-en-2-ol | Skin Irrit. 2; Eye Irrit. 2 | H315; H319 | GHS07 | |
| dl-Limonene | Flam. Liq. 3; Asp. Tox. 1; Skin Irrit. 2; Skin Sens. 1; Aquatic Acute 1; Aquatic Chronic 1 | H226; H304; H315; H317; H400; H410 | GHS02; GHS07; GHS08; GHS09 | M (acute) = 1 |
| 7-Hydroxycitronellal | Skin Sens. 1B; Eye Irrit. 2 | H317; H319 | GHS07 | |
| Alpha-methyl-1,3-benzodioxole-5-propionaldehyde | Skin Sens. 1B; Repr. 2; Aquatic Chronic 2 | H317; H361fd; H411 | GHS07; GHS08; GHS09 | |
| Coumarin | Acute Tox. 4; Skin Sens. 1B; Aquatic Chronic 3 | H302; H317; H412 | GHS07 | |
| 1-(2,6,6-Trimethyl-3-cyclohexen-1-yl)-2-buten-1-one | Acute Tox. 4; Skin Irrit. 2; Skin Sens. 1A; Aquatic Acute 1; Aquatic Chronic 1 | H302; H315; H317; H400; H410 | GHS07; GHS09 | M (acute) = 1<br>M (chronic) = 1 |
| Linalyl acetate | Skin Irrit. 2; Skin Sens. 1B; Eye Irrit. 2 | H315; H317; H319 | GHS07 | |
| Linalool | Skin Irrit. 2; Skin Sens. 1B; Eye Irrit. 2 | H315; H317; H319 | GHS07 | |
| 2,2,6-Trimethyl-alpha-propylcyclohexanepropanol | Skin Sens. 1B | H317 | GHS07 | |
| 3-(p-Ethylphenyl)-2,2-dimethylpropionaldehyde | Skin Irrit. 2; Skin Sens. 1B; Aquatic Acute 1; Aquatic Chronic 2 | H315; H317; H400; H411 | GHS07; GHS09 | M (acute) = 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 |
| Pin-2(10)-ene | Flam. Liq. 3; Asp. Tox. 1; Skin Irrit. 2; Skin Sens. 1B; Aquatic Acute 1; Aquatic Chronic 1 | H226; H304; H315; H317; H400; H410 | GHS02; GHS07; GHS08; GHS09 | M (acute) = 1<br>M (chronic) = 1 |
| Pin-2(3)-ene | Flam. Liq. 3; Acute Tox. 4; Asp. Tox. 1; Skin Irrit. 2; Skin Sens. 1B; Aquatic Acute 1; Aquatic Chronic 1 | H226; H302; H304; H315; H317; H400; H410 | GHS02; GHS07; GHS08; GHS09 | M (acute) = 1<br>M (chronic) = 1 |
| Eugenol | Skin Sens. 1B; Eye Irrit. 2 | H317; H319 | GHS07 | |
| p-Mentha-1,4-diene | Flam. Liq. 3; Repr. 2; Aquatic Chronic 2 | H226; H361; H411 | GHS02; GHS08; GHS09 | |
| Cinnamaldehyde | Acute Tox. 4; Skin Irrit. 2; Skin Sens. 1A; Eye Irrit. 2 | H312; H315; H317; H319 | GHS07 | |

| | | | | |
|---|---|---|---|---|
| Isoeugenol | Acute Tox. 4; Acute Tox. 4; Skin Irrit. 2; Skin Sens. 1A; Eye Irrit. 2; Acute Tox. 4; STOT SE 3 | H302; H312; H315; H317; H319; H332; H335 | GHS07 | H317 : C >= 0,01 % |

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 if irritation persists.

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 : May cause stinging of eyes and redness.

Ingestion : May cause a feeling of sickness, vomiting and diarrhoea.

### 4.3. Indication of any immediate medical attention and special treatment needed

Note to physicians : None known.

## SECTION 5 FIRE-FIGHTING MEASURES *

### 5.1. Extinguishing media

Extinguishing media

Suitable : Carbondioxide ($CO_2$). Foam. Dry chemical. Water fog.

Not suitable : Water jet. Use of heavy stream of water may spread fire.

### 5.2. Special hazards arising from the substance or mixture

Special exposure hazards : None known.

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

### 5.3. Advice for firefighters

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

## SECTION 6 ACCIDENTAL RELEASE MEASURES

### 6.1. Personal precautions, protective equipment and emergency procedures

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

### 6.2. Environmental precautions

Environmental precautions : Avoid release of product into sewers, surface water and/or ground water. In case of large spills: contain with dike. Waste product should not be allowed to contaminate soil or water.

Other information : Notify authorities if any exposure to the general public or the environment occurs or is likely to occur.

### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Collect spilled material in containers. Dispose at an authorised waste collection point. Wash away remainder with plenty of water and soap.

### 6.4. Reference to other sections

Reference to other sections : See also section 8.

## SECTION 7 HANDLING AND STORAGE *

### 7.1. Precautions for safe handling

Handling : Handle in accordance with good occupational hygiene and safety practices in well-ventilated areas. Avoid contact with skin and eyes. Avoid splashing. Wear protective clothing.

### 7.2. Conditions for safe storage, including any incompatibilities

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

Recommended packaging : Keep only in the original container.

Non recommended packaging : None known.

### 7.3. Specific end use(s)

Use : Use only as directed.

## SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION *

### 8.1. Control parameters

Occupational exposure limits : Occupational exposure limits have not been established for this product. Derived no-effect levels (DNEL) have not been established for this product. Predicted no-effect concentrations (PNEC) have not been established for this product.

Workplace exposure limits (mg/m³):

| Chemical name | Country | TWA 8 hour (mg/m3) | STEL 15 min (mg/m3) | Comments | Source |
|---|---|---|---|---|---|
| dl-Limonene | | 140 | | | MAC: NO |
| Pin-2(3)-ene | | 113 | - | | MAC: BE |

Derived no-effect level (DNEL) for workers:

| Chemical name | Route of exposure | DNEL, short-term | | DNEL, long-term | |
|---|---|---|---|---|---|
| | | Local effect | Systemic effect | Local effect | Systemic effect |
| 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphtyl)ethan-1-one | Inhalation | | | | 30 mg/m3 |

| | | | | | |
|---|---|---|---|---|---|
| | Dermal | | | 0.648 mg/kg bw/day | 28.7 mg/kg bw/day |
| 2,6-Dimethyloct-7-en-2-ol | Dermal | | | | 7 mg/kg bw/day |
| | Inhalation | | | | 24.7 mg/m3 |
| 7-Hydroxycitronellal | Inhalation | | | | 18 mg/m3 |
| | Dermal | | | 0.5 mg/kg bw/day | 1,9 mg/kg bw/day |
| Alpha-methyl-1,3-benzodioxole-5-propionaldehyde | Inhalation | | | | 1,2 mg/m3 |
| | Dermal | | | 0,01 mg/kg bw/day | 0,17 mg/kg bw/day |
| Coumarin | Dermal | | | | 0,79 mg/kg bw/day |
| | Inhalation | | | | 6,78 mg/m3 |
| Linalyl acetate | Dermal | 0,2362 mg/kg bw | | 0,2362 mg/kg bw/day | 2,5 mg/kg bw/day |
| | Inhalation | | | | 2,75 mg/m3 |
| Linalool | Inhalation | | | | 24.58 mg/m3 |
| | Dermal | 3 mg/kg bw | | 3 mg/kg bw/day | 3.5 mg/kg bw/day |
| Allyl (cyclohexyloxy)acetate | Inhalation | | | | 3,16 mg/m3 |
| | Dermal | | | | 0,448 mg/kg bw/day |
| Pin-2(10)-ene | Inhalation | | | | 5,69 mg/m3 |
| | Dermal | | | 0,054 mg/kg bw/day | 0,8 mg/kg bw/day |
| Pin-2(3)-ene | Inhalation | | | | 3,8 mg/m3 |
| | Dermal | | | | 0,542 mg/kg bw/day |
| Eugenol | Inhalation | | | | 21,2 mg/m3 |
| | Dermal | | | | 6 mg/kg bw/day |
| p-Mentha-1,4-diene | Inhalation | | | | 2,939 mg/m3 |
| | Dermal | | | | 0,833 mg/kg bw/day |
| Cinnamaldehyde | Inhalation | | | | 2,203 mg/m3 |
| | Dermal | | | | 2,5125 mg/kg bw/day |

Derived no-effect level (DNEL) for consumers:

| Chemical name | Route of exposure | DNEL, short-term | | DNEL, long-term | |
|---|---|---|---|---|---|
| | | Local effect | Systemic effect | Local effect | Systemic effect |
| 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphtyl)ethan-1-one | Inhalation | | | | 9 mg/m3 |
| | Dermal | | | 0.380 mg/kg bw/day | 17.2 mg/kg bw/day |
| | Oral | | | | 3 mg/kg bw/day |
| 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 |
| 7-Hydroxycitronellal | Inhalation | | | | 5,4 mg/m3 |
| | Dermal | | | 0.5 mg/kg bw/day | 1,1 mg/kg bw/day |
| | Oral | | | | 0,6 mg/kg bw/day |
| Alpha-methyl-1,3-benzodioxole-5-propionaldehyde | Inhalation | | | | 0,29 mg/m3 |
| | Dermal | | | 0,005 mg/kg bw/day | 0,083 mg/kg bw/day |
| | Oral | | | | 0,17 mg/kg bw/day |
| Coumarin | Dermal | | | | 0,39 mg/kg bw/day |
| | Oral | | | | 0,39 mg/kg bw/day |
| | Inhalation | | | | 1,69 mg/m3 |

| | | | | | |
|---|---|---|---|---|---|
| Linalyl acetate | Dermal | 0,2362 mg/kg bw | | 0,2362 mg/kg bw/day | 1,25 mg/kg bw/day |
| | Inhalation | | | | 0,68 mg/m3 |
| | Oral | | | | 0,2 mg/kg bw/day |
| 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 |
| Allyl (cyclohexyloxy)acetate | Inhalation | | | | 0,557 mg/m3 |
| | Dermal | | | | 0,16 mg/kg bw/day |
| | Oral | | | | 0,16 mg/kg bw/day |
| Pin-2(10)-ene | Inhalation | | | | 1 mg/m3 |
| | Dermal | | | 0,027 mg/kg bw/ day | 0,3 mg/kg bw/day |
| | Oral | | | | 0,3 mg/kg bw/day |
| Pin-2(3)-ene | Inhalation | | | | 0,674 mg/m3 |
| | Dermal | | | | 0,225 mg/kg bw/day |
| | Oral | | | | 0,225 mg/kg bw/day |
| Eugenol | Inhalation | | | | 5,22 mg/m3 |
| | Dermal | | | | 3 mg/kg bw/day |
| | Oral | | | | 3 mg/kg bw/day |
| p-Mentha-1,4-diene | Inhalation | | | | 0,725 mg/m3 |
| | Dermal | | | | 0,417 mg/kg bw/day |
| | Oral | | | | 0,417 mg/kg bw/day |
| Cinnamaldehyde | Inhalation | | | | 0,5435 mg/m3 |
| | Dermal | | | | 0,625 mg/kg bw/day |
| | Oral | | | | 2,5 mg/kg bw/day |

Predicted no-effect concentration (PNEC):

| Chemical name | Route of exposure | Fresh water | Marine water | |
|---|---|---|---|---|
| 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphtyl)ethan-1-one | Water | 0.0044 mg/l | 0.00044 mg/l | |
| | Sediment | 3.73 mg/kg | 0.75 mg/kg | |
| | STP | | | 10 mg/l |
| | Soil | | | 2.7 mg/kg |
| | Oral | | | 26.7 mg/kg food |
| 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 |
| 7-Hydroxycitronellal | Water | 0.0316 mg/l | 0.00316 mg/l | |
| | Sediment | 0.145 mg/kg | 0.015 mg/kg | |
| | STP | | | 10 mg/l |
| | Soil | | | 0.011 mg/kg |
| Alpha-methyl-1,3-benzodioxole-5-propionaldehyde | Water | 0,005 mg/l | 0,001 mg/l | |
| | Sediment | 0,057 mg/kg | 0,006 mg/kg | |
| | STP | | | 10 mg/l |
| | Soil | | | 0,008 mg/kg |
| Coumarin | Water | 0,019 mg/l | 0,0019 mg/l | |
| | Sediment | 0,15 mg/kg | 0,015 mg/kg | |
| | Intermittent water | | | 0,0142 mg/l |
| | STP | | | 6,4 mg/l |
| | Soil | | | 0,018 mg/kg |

| | | | | |
|---|---|---|---|---|
| | Oral | | | 30,7 mg/kg food |
| Linalyl acetate | Water | 0,011 mg/l | 0,001 mg/l | |
| | Sediment | 0,609 mg/kg | 0,061 mg/kg | |
| | Intermittent water | | | 0,11 mg/l |
| | STP | | | 1 mg/l |
| | Soil | | | 0,115 mg/kg |
| 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 |
| Allyl (cyclohexyloxy)acetate | Water | 0,00205 mg/l | 0,000205 mg/l | |
| | Sediment | 0,0387 mg/kg | 0,00387 mg/kg | |
| | STP | | | 0,3 mg/l |
| | Soil | | | 0,375 mg/kg |
| Pin-2(10)-ene | Water | 0,001004 mg/l | 0,0001 mg/l | |
| | Sediment | 0,337 mg/kg | 0,034 mg/kg | |
| | STP | | | 3,26 mg/l |
| | Soil | | | 0,067 mg/kg |
| | Oral | | | 13,1 mg/kg food |
| Pin-2(3)-ene | Water | 0.000606 mg/l | 0.000061 mg/l | |
| | Sediment | 0,157 mg/kg | 0,0157 mg/kg | |
| | STP | | | 0,2 mg/l |
| | Soil | | | 0,0317 mg/kg |
| | Oral | | | 8,76 mg/kg food |
| Eugenol | Water | 0.00113 mg/l | 0.000113 mg/l | |
| | Sediment | 0.081 mg/kg | 0.008 mg/kg | |
| | Soil | | | 0.015 mg/kg |
| p-Mentha-1,4-diene | Water | 0.003 mg/l | 0 mg/l | |
| | Sediment | 0.49 mg/kg | 0.049 mg/kg | |
| | STP | | | 10 mg/l |
| | Soil | | | 0.423 mg/kg |
| Cinnamaldehyde | Water | 1,004 mg/l | 0,1004 mg/l | |
| | Sediment | 159,1851 mg/kg | 159,1851 mg/kg | |
| | Intermittent water | | | 1,004 mg/l |
| | STP | | | 13,119 mg/l |
| | Soil | | | 56,0847 mg/kg |
| | Oral | | | 0,00033 mg/kg food |

### 8.2. Exposure controls

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

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

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

:

| | | |
|---|---|---|
| Body protection | : | Wear appropriate protective clothing, overalls or suit, and similar boots in accordance with EN 365/367 resp. 345. Suitable material: laminated film. Indication of permeation breakthrough time: not known. |
| Respiratory protection | : | Take care of sufficient ventilation. Wear suitable respiratory protection in case of large scale exposure. Suitable: gas filter type A (brown), class I or higher on e.g. a facemask in accordance with EN 140. |
| Hand protection | : | Wear appropriate safety gloves in accordance with EN 374. Suitable material: laminated film. ± 0,5 mm. Indication of permeation breakthrough time: not known. |
| Eye protection | : | Wear appropriate safety glasses when there is danger of possible eye contact. |

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES *

### 9.1. Information on basic physical and chemical properties

| | | | |
|---|---|---|---|
| Physical state | : | Liquid. | Impregnated material. |
| Colour | : | Light yellow. | |
| Odour | : | Perfumed. | |
| Odour threshold | : | Not known. | |
| pH | : | Not applicable. | Waterfree product. |
| Solubility in water | : | Not soluble. | |
| Partition coefficient (n-octanol/water) | : | Not known. | Not measured. Not relevant for mixtures. |
| Flash point | : | > 100 °C | Closed cup. |
| Flammability (solid, gas) | : | Not applicable. | Liquid. See flashpoint. |
| Auto ignition temperature | : | > 225 °C | |
| Boiling point/boiling range | : | > 100 °C | |
| Melting point/melting range | : | < 0 °C | |
| Explosive properties | : | Not an explosive. | |
| Explosion limits (% in air) | : | Not known. | Lower explosion limit in air (%): 0,7 ( dl-Limonene ) |
| | : | | Upper explosion limit in air (%): 6,1 ( dl-Limonene ) |
| Oxidising properties | : | Not applicable. | Does not contain oxidizing substances. |
| Decomposition temperature | : | Not applicable. | |
| Viscosity (20°C) | : | Not known. | |
| Viscosity (40°C) | : | Not relevant. | The product contains < 10% substances having an aspiration hazard. |
| Vapour pressure (20°C) | : | Not known. | |
| Relative vapour density | : | > 1 | (air = 1) |
| Relative density (20°C) | : | 0,88 g/ml | |
| Particle characteristics | : | Not applicable. | Liquid. |

### 9.2. Other information

| | | |
|---|---|---|
| Other information | : | Not relevant. |

## SECTION 10 STABILITY AND REACTIVITY

### 10.1. Reactivity

| | | |
|---|---|---|
| Reactivity | : | See sub-sections below. |

### 10.2. Chemical stability

| | | |
|---|---|---|
| Stability | : | Stable under normal conditions. |

### 10.3. Possibility of hazardous reactions

| | | |
|---|---|---|
| Reactivity | : | No other hazardous reactions known. |

### 10.4. Conditions to avoid

Conditions to avoid : See section 7.

### 10.5. Incompatible materials

Materials to avoid : Keep away from oxidizing agents.

### 10.6. Hazardous decomposition products

Hazardous decomposition products : Not known.

## SECTION 11 TOXICOLOGICAL INFORMATION *

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

No toxicological research has been carried out on this product.

Inhalation

- Acute toxicity : Calculated LC50: > 10 mg/l. Ingredients of unknown toxicity: 16 %. ATE: > 5 mg/l. Low toxicity. Not classified - based on available data, the classification criteria are not met.
- Corrosion/irritation : Not classified - based on available data, the classification criteria are not met.
- Sensitisation : Does not contain substances classified as respiratory sensitiser. Not classified - based on available data, the classification criteria are not met.
- Carcinogenicity : Does not contain carcinogenic substances. Not classified - based on available data, the classification criteria are not met.
- Mutagenicity : Does not contain mutagenic substances. Not classified - based on available data, the classification criteria are not met.

Skin contact

- Acute toxicity : Calculated LD50: > 5000 mg/kg.bw. Ingredients of unknown toxicity: < 1 %. ATE: > 2000 mg/kg.bw. Low toxicity. Not classified - based on available data, the classification criteria are not met.
- Corrosion/irritation : Irritant. May cause redness. Prolonged contact may dry out and defat the skin.
- Sensitisation : May cause sensitisation by skin contact. May produce an allergic reaction.
- Mutagenicity : Does not contain mutagenic substances. Not classified - based on available data, the classification criteria are not met.

Eye contact

- Corrosion/irritation : Slight irritation possible. Not classified - based on available data, the classification criteria are not met.

Ingestion

- Acute toxicity : Calculated LD50: > 5000 mg/kg.bw. Ingredients of unknown toxicity: < 1 %. ATE: > 2000 mg/kg.bw. Low toxicity. Not classified - based on available data, the classification criteria are not met.
- Aspiration : Contains a substance/substances with an aspiration hazard. Not classified - based on available data, the classification criteria are not met.
- Corrosion/irritation : May cause a feeling of sickness, vomiting and diarrhoea.
- Carcinogenicity : 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 classified - based on available data, the classification criteria are not met.

Toxicological information:

| Chemical name | Property | | Method | Test animal |
|---|---|---|---|---|
| 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphtyl)ethan-1-one | Skin irritation | Non-irritant | ----- | Rabbit |

| | | | | |
|---|---|---|---|---|
| | Skin sensitisation | 6825 ug/cm2 | OECD 429 | Mouse |
| | LD50 (oral) | > 5000 mg/kg bw | ----- | Rat |
| | LD50 (dermal) | > 5000 mg/kg bw | ----- | Rat |
| | Mutagenicity | Not mutagenic | OECD 471 | ----- |
| | NOAEL (development, oral) | 480 mg/kg bw/d | OECD 414 | Rat |
| | LC50 (inhalation) - estimate | > 22360 mg/m3 | Read across | |
| 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 |
| dl-Limonene | Skin sensitisation - estimate | Sensitizing. | Read across | |
| | NOAEL (oral) - estimate | 1200 mg/kg bw/d | Read across | Rat |
| | NOAEL (fertility) - estimate | Not reprotoxic | Read across | |
| | Genotoxicity - estimate | Not genotoxic | Read across | |
| | Mutagenicity - estimate | Not mutagenic | Read across | |
| | NOAEL (development) - estimate | 591 mg/kg.d | Read across | Rat |
| | LD50 (dermal) - estimate | > 5000 mg/kg bw | Read across | |
| | Skin irritation | Moderately irritant | OECD 404 | Rabbit |
| | LD50 (oral) | 5300 mg/kg bw | ----- | Rat |
| 7-Hydroxycitronellal | Respiratory irritation | Irritant | | |
| | LD50 (dermal) | > 2000 mg/kg bw | ----- | Rabbit |
| | Skin sensitisation | 5612 ug/cm2 | OECD 429 | Mouse |
| | Skin irritation | 850 ug/cm2 | OECD 404 | |
| | Eye irritation | Irritant | | |
| | Skin irritation | Non-irritant | | |
| | LD50 (oral) | > 5000 mg/kg bw | ----- | Rat |
| | NOEL (oral) | 250 mg/kg bw/d | | |
| | Genotoxicity - in vivo | Not genotoxic | | Mouse |
| | NOEL (carcinogenicity) - estimate | Not carcinogenic | | |
| | Mutagenicity | Negative | OECD 471 | Salmonella typhimurium |
| Alpha-methyl-1,3-benzodioxole-5-propionaldehyde | Skin sensitisation | 4100 ug/cm2 | OECD 429 | ----- |
| | NOAEL (dermal) | > 300 mg/kg bw/d | ----- | Rat |
| | NOAEL (development, oral) | > 500 mg/kg bw/d | | Rat |
| | Skin irritation | Non-irritant | | |
| | LD50 (oral) | 3600 mg/kg bw | ----- | Rat |
| | LD50 (dermal) | > 2000 mg/kg bw | ----- | Rabbit |
| | Skin irritation | Non-irritant | | |
| | NOAEL (fertility, oral) | 100 mg/kg bw/d | OECD 422 | Rat |

| | | | | |
|---|---|---|---|---|
| Coumarin | Skin sensitisation | > 12500 ug/cm2 | OECD 429 | Mouse |
| | NOAEL (development, oral) | > 115 mg/kg bw/d | | Mouse |
| | Eye irritation | Non-irritant | | Rabbit |
| | LD50 (oral) | 680 mg/kg bw | ----- | Rat |
| | NOAEL (oral) | > 138,3 mg/kg bw/d | | Mouse |
| | Skin irritation | Non-irritant | | Rabbit |
| | Genotoxicity - in vitro | Not genotoxic | OECD 476 | |
| | Mutagenicity | Negative | OECD 471 | Salmonella typhimurium |
| | Genotoxicity - in vivo | > 105 mg/kg bw/d | OECD 474 | Mouse |
| | NOEL (carcinogenicity) - estimate | Not carcinogenic | | |
| 1-(2,6,6-Trimethyl-3-cyclohexen-1-yl)-2-buten-1-one | Genotoxicity - estimate | Not genotoxic | Read across | ----- |
| | NOAEL (development) - estimate | Not teratogenic | Read across | ----- |
| | NOAEL (fertility) - estimate | Not reprotoxic | Read across | ----- |
| | NOEL (carcinogenicity) - estimate | Not carcinogenic | Read across | |
| | NOAEL (dermal) - estimate | 50 mg/kg bw/d | Read across | Rat |
| | NOAEL (oral) - estimate | 10 mg/kg bw/d | Read across | Rat |
| | Mutagenicity | Negative | OECD 471 | Salmonella typhimurium |
| | LD50 (oral) | 1821 mg/kg bw | | Mouse |
| Linalyl acetate | Outdoor cleaners (excludes stone, concrete and similar surfaces) | 1000 mg/kg bw/d | OECD 414 | Rat |
| | LD50 (oral) | 13934 mg/kg bw | ----- | Rat |
| | LC50 (inhalation) | > 2740 mg/m3 | ----- | Mouse |
| | Skin irritation | Non-irritant | ----- | Human |
| | Skin irritation | Irritant | OECD 404 | Rabbit |
| | Eye irritation | Irritant | OECD 405 | Rabbit |
| | NOAEL (oral) - estimate | 160 mg/kg bw/d | OECD 407 | Rat |
| | NOAEL (dermal) | 250 mg/kg bw/d | OECD 411 | Rat |
| | Mutagenicity | Not mutagenic | OECD 471 | Salmonella typhimurium |
| | Genotoxicity - in vitro | Not genotoxic | OECD 476 | Mouse |
| | Genotoxicity - in vivo | Not genotoxic | OECD 474 | Mouse |
| | NOAEL (development, oral) | > 1000 mg/kg bw/d | OECD 414 | Rat |
| | LC50 (inhalation) - estimate | > 5000 mg/m3 | ----- | Rat |
| | Skin sensitisation | Sensitizing. | OECD 406 | Guinea pig |
| Linalool | NOAEL (development, oral) | 365 mg/kg bw/d | ----- | Rat |
| | Eye irritation | Non-irritant | OECD 405 | Rabbit |
| | Skin sensitisation | 12650 ug/cm2 | OECD 429 | Mouse |
| | Mutagenicity | Negative | OECD 471 | Salmonella typhimurium |
| | NOAEL (fertility, oral) | 500 mg/kg bw/d | | Rat |
| | Skin irritation | Irritant | OECD 404 | Rabbit |
| | NOAEL (dermal) | 250 mg/kg bw/d | OECD 411 | Rat |
| | Genotoxicity - in vivo | Not genotoxic | OECD 475 | Mouse |

| | | | | |
|---|---|---|---|---|
| | LD50 (dermal) | 5610 mg/kg bw | ----- | Rabbit |
| | Skin irritation | Mildly irritant | ----- | Human |
| | LD50 (oral) | 2790 mg/kg bw | ----- | Rat |
| | NOAEL (oral) | 117 mg/kg bw/d | ----- | Rat |
| 2,2,6-Trimethyl-alpha-propylcyclohexanepropanol | LD50 (oral) | > 20000 mg/kg bw | | |
| 3-(p-Ethylphenyl)-2,2-dimethylpropionaldehyde | LD50 (dermal) | > 5000 mg/kg bw | | Rabbit |
| | LD50 (oral) | > 5000 mg/kg bw | | Rat |
| | LC50 (inhalation) - estimate | > 5000 mg/m3 | | |
| | Skin sensitisation - estimate | Sensitizing. | Read across | |
| Pin-2(10)-ene | Eye irritation | Moderately irritant | OECD 405 | Rabbit |
| | NOAEL (development) - estimate | 250 mg/kg.d | Read across | |
| | Skin irritation | Irritant | ----- | ----- |
| | Mutagenicity | Negative | OECD 471 | Salmonella typhimurium |
| | LD50 (oral) | > 5000 mg/kg bw | | Rat |
| | LD50 (dermal) | > 5000 mg/kg bw | | Rabbit |
| Pin-2(3)-ene | Skin sensitisation | Sensitizing. | ----- | Guinea pig |
| | Skin irritation | Non-irritant | ----- | Human |
| | NOAEL (fertility, oral) | 749 mg/kg bw/d | OECD 421 | Rat |
| | Skin irritation | Moderately irritant | ----- | Rabbit |
| | Mutagenicity | Not mutagenic | ----- | Salmonella typhimurium |
| | Eye irritation - estimate | Moderately irritant | Read across | Rabbit |
| | Genotoxicity - estimate | Not genotoxic | Read across | |
| | NOAEL (inhalation) | 170 mg/m3 | OECD 413 | Rat |
| | NOAEL (oral) - estimate | 800 mg/kg bw/d | Read across | |
| | LD50 (oral) | 500 mg/kg bw | OECD 423 | Rat |
| | LD50 (dermal) | > 2000 mg/kg bw | OECD 402 | Rat |
| Eugenol | LD50 (oral) | > 2000 mg/kg bw | OECD 423 | Rat |
| | LC50 (inhalation) | > 2580 mg/m3 | OECD 403 | Rat |
| | LC50 (inhalation) - estimate | > 5000 mg/m3 | | Rat |
| | LD50 (dermal) | > 2000 mg/kg bw | | Rat |
| | NOEL (carcinogenicity, oral) | 300 mg/kg bw/d | ----- | Rat |
| | Skin sensitisation | 2703 ug/cm2 | OECD 429 | Mouse |
| | NOAEL (oral) | 600 mg/kg bw/d | OECD 408 | Rat |
| | Genotoxicity - in vitro | Genotoxic | OECD 476 | Mouse |
| | Genotoxicity - estimate | Not genotoxic | | |
| | Genotoxicity - in vivo | Genotoxic | OECD 474 | Mouse |
| | Mutagenicity | Not mutagenic | OECD 471 | Salmonella typhimurium |
| | NOAEL (fertility) - estimate | > 700 mg/kg.d | Read across | Rat |
| | NOAEL (development, oral) | 250 mg/kg bw/d | | Rabbit |
| | Eye irritation | Irritant | | Rabbit |
| | Skin irritation | Slightly irritant | OECD 404 | Rabbit |
| Cinnamaldehyde | Skin irritation | Severely irritant | | |
| | NOAEL (development, oral) | 5 mg/kg bw/d | ----- | Rat |
| | LD50 (oral) | 2220 mg/kg bw | ----- | Rat |

| | | | | |
|---|---|---|---|---|
| | LD50 (dermal) | 1260 mg/kg bw | ----- | Rabbit |
| | Mutagenicity | Not mutagenic | ----- | Salmonella typhimurium |
| | NOAEL (oral) - estimate | 250 mg/kg bw/d | | |
| | Genotoxicity - in vitro | Genotoxic | ----- | |
| | Genotoxicity - in vivo | Not genotoxic | ----- | |
| | Eye irritation | Moderately irritant | ----- | Rabbit |
| | NOEL (carcinogenicity) - estimate | Not carcinogenic | | |
| | Skin sensitisation | 262 ug/cm2 | OECD 429 | Mouse |
| Isoeugenol | Skin sensitisation | 498 ug/cm2 | OECD 429 | Mouse |
| | Skin irritation | Moderately irritant | ----- | Human |
| | Skin irritation | Severely irritant | | Rabbit |
| | NOEL (carcinogenicity, oral) | Not carcinogenic | ----- | Rat |
| | Mutagenicity | Negative | ----- | Salmonella typhimurium |
| | LC50 (inhalation) - estimate | 1500 mg/m3 | | |
| | LD50 (dermal) - estimate | 1912 mg/kg bw | | |
| | LD50 (oral) | 1560 mg/kg bw | ----- | Rat |

### 11.2. Information on other hazards

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

## SECTION 12 ECOLOGICAL INFORMATION *

### 12.1. Toxicity

No ecotoxicological research has been carried out on this product.
Ecotoxicity : Toxic to aquatic organisms. Calculated LC50 (fish): 3 mg/l. Calculated EC50 (waterflea): 12 mg/l. Contains 0 % of components with unknown hazards to the aquatic environment.

### 12.2. Persistence and degradability

Persistence – degradability : May cause long-term adverse effects in the aquatic environment.

### 12.3. Bioaccumulative potential

Bioaccumulative potential : No specific information known.

### 12.4. Mobility in soil

Mobility : Adsorbs to soil and has low mobility.

### 12.5. Results of PBT and vPvB assessment

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

### 12.6. Endocrine disrupting properties

Endocrine disrupting properties : Not applicable.

### 12.7. Other adverse effects

Other adverse effects : Not applicable.

Ecological information:

| Chemical name | Property | | Method | Test animal |
|---|---|---|---|---|
| 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphtyl)ethan-1-one | EC50 (waterflea) | 1,38 mg/l | OECD 202 | ----- |
| | IC50 (algea) | > 2,6 mg/l | OECD 201 | ----- |
| | LC50 (fish) | 1,3 mg/l | OECD 203 | ----- |
| | Log P(ow) | 5,23 | | |
| | BCF | 600 | | |
| dl-Limonene | IC50 (algea) - estimate | > 1,81 mg/l | | |
| | EC50 (waterflea) - estimate | 0,42 mg/l | | |
| | LC50 (fish) - estimate | 0,7 mg/l | | |
| | LC50 (fish) | 0,2 mg/l | ----- | ----- |
| | EC50 (waterflea) | 17 mg/l | ----- | Daphnia magna |
| | Log P(ow) | 5,3 | | |
| | BCF | 761 | | |
| Alpha-methyl-1,3-benzodioxole-5-propionaldehyde | EC50 (waterflea) | 8,3 mg/l | OECD 202 | Daphnia magna |
| | LC50 (fish) | > 4,6 mg/l | OECD 203 | Oncorhynchus mykiss |
| | IC50 (algea) | 28 mg/l | OECD 201 | Pseudokirchnerella subcapitata |
| | Log P(ow) | 2,4 | | |
| 1-(2,6,6-Trimethyl-3-cyclohexen-1-yl)-2-buten-1-one | Log P(ow) | 4,2 | | |
| Allyl (cyclohexyloxy)acetate | 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 (algea) | 69,2 mg/l | OECD 201 | Pseudokirchnerella subcapitata |
| | LC50 (fish) | 0,205 mg/l | OECD 203 | Brachydanio rerio |
| | Log P(ow) | 2,64 | | |
| Pin-2(10)-ene | LC50 (fish) | 0,502 mg/l | OECD 203 | Pimephales promelas |
| | EC50 (waterflea) | 1,25 mg/l | OECD 202 | Daphnia magna |
| | Ultimate aerobic biodegradation (%) | 76 % | OECD 301 D | |
| | IC50 (algea) | 0,826 mg/l | OECD 201 | Pseudokirchnerella subcapitata |
| | Log P(ow) | 4,4 | | |
| Pin-2(3)-ene | Ultimate aerobic biodegradation (%) | 62 % | OECD 301 B | |
| | LC50 (fish) | 0,28 mg/l | ----- | Pimephales promelas |
| | EC50 (waterflea) | 1,44 mg/l | ----- | Daphnia magna |
| | Log P(ow) | 4,32 | | |

## SECTION 13 DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

Product residues : Do not dispose empty pack with waste produced by households. Containers may be recycled. Treat product residues, impregnated wipes and non-empty pack as hazardous waste.

Additional warning : None.

| | | |
|---|---|---|
| Waste water discharge | : | Do not dispose of into the environment, drains, sewers or water courses. |
| European waste catalogue | : | Dispose hazardous waste in accordance with Directive 91/689/EEC under acknowledgement of a waste code according to Commission Decision 2000/532/EC to an official chemical waste depot. |
| Local legislation | : | Disposal should be in accordance with applicable regional, national, and local laws and regulations. Local regulations may be more stringent than regional or national requirements and must be complied with. |

## SECTION 14 TRANSPORT INFORMATION *

### 14.1. UN number or ID number

| | | |
|---|---|---|
| UN nr. | : | UN 3082 |

### 14.2. UN proper shipping name

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

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

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

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

:

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

IMDG (sea)

| | | |
|---|---|---|
| Class | : | 9 |
| Packaging group | : | III |
| EmS (fire / spill) | : | F - A / S - F |
| Marine pollutant | : | Yes |
| Other information | : | This product is not regulated as a dangerous good when transported in sizes of <= 5 L or <= 5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8 (IMDG code 37-14, 2.10.2.7). |

IATA (air)

| | | |
|---|---|---|
| Class | : | 9 |
| ERG code | : | 9L |
| Packaging group | : | III |

### 14.6. Special precautions for user

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

### 14.7. Maritime transport in bulk according to IMO instruments

Marpol : Not intended to be carried in bulk according to International Maritime Organisation (IMO) instruments. Packaged liquids are not considered bulk.

## SECTION 15 REGULATORY INFORMATION *

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

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

### 15.2. Chemical safety assessment

Chemical safety assessment : Not applicable.

## SECTION 16 OTHER INFORMATION *

### 16.1. Other information

The information in this safety data sheet is compiled in compliance with Regulation (EU) No 2020/878 dated 18 June 2020 and accurate to the best of our knowledge and experience at the date of issue specified. It is the user's obligation to use this product safely and to comply with all applicable laws and regulations concerning the use of the product. This safety data sheet complements the technical information sheets but does not replace them and offers no warranty with regard to product properties.

Users are also forewarned for any hazards involved when the product is used for other purposes than those for which it is designed.

Changed or new information with regard to the previous release is indicated with an asterisk (*).

List of abbreviations and acronyms that could be (but not necessarily are) used in this safety data sheet:

| | | |
|---|---|---|
| ADR | : | European Agreement concerning the International Carriage of Dangerous Goods by Road |
| ATE | : | Acute Toxicity Estimate |
| CLP | : | Classification, Labeling & Packaging |
| CMR | : | Carcinogenic, Mutagenic or toxic for Reproduction |
| EEC | : | European Economic Community |
| GHS | : | Globally Harmonized System of Classification and Labelling of Chemicals |
| IATA | : | International Air Transport Association |
| IBC code | : | International Bulk Chemical Code |
| IMDG | : | International Maritime Dangerous Goods Code |
| LD50/LC50 | : | Lethal Dose/Concentration for 50% of a population |
| MAC | : | Maximum Allowable Concentration |
| MARPOL | : | International Convention for the Prevention of Pollution From Ships |
| NO(A)EL | : | No Observed (Adverse) Effect Level |
| OECD | : | Organisation for Economic Co-operation and Development |
| PBT | : | Persistent, Bioaccumulative and Toxic |
| PC | : | Chemical product category |
| PT | : | Product type |
| REACH | : | Registration, Evaluation, Authorisation and Restriction of Chemicals |
| RID | : | Regulations concerning the International Carriage of Dangerous Goods by Rail |
| STP | : | Sewage Treatment Plant |
| SU | : | Sector of Use |
| TWA/STEL | : | Time-Weighted Average/Short Term Exposure Limit |
| UN | : | United Nations |
| UFI | : | Unique formula identifier |

| | | |
|---|---|---|
| VOC | : | Volatile Organic Compounds |
| vPvB | : | Very Persistent and Very Bioaccumulative |

Key data used to compile the Safety Data Sheet are from, but not limited to, one or more sources of information e.g. toxicological data from material suppliers, CONCAWE, IFRA, CESIO, Regulation EG 1272/2008, etc.

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008:

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

Full text of hazard classes mentioned in section 3:

| | | |
|---|---|---|
| Flam. Liq. 3 | : | Flammable liquid, category 3. |
| Acute Tox. 4 | : | Acute toxicity, category 4. |
| Skin Irrit. 2 | : | Skin irritation, category 2. |
| Eye Irrit. 2 | : | Eye irritation, category 2. |
| Skin Sens. 1/1A/1B | : | Skin sensitization, category 1/1A/1B. |
| Repr. 2 | : | Reproductive toxicity, category 2. |
| STOT SE 3 | : | Specific target organ toxicity after single exposure, category 3. |
| Asp. Tox. 1 | : | Aspiration hazard, category 1. |
| Aquatic Chronic 1 | : | Hazardous to the aquatic environment — Chronic category 1. |
| Aquatic Chronic 2 | : | Hazardous to the aquatic environment — Chronic category 2. |
| Aquatic Chronic 3 | : | Hazardous to the aquatic environment — Chronic category 3. |
| Aquatic Acute 1 | : | Hazardous to the aquatic environment — Acute category 1. |

Full text of H-phrases mentioned in section 3:

| | |
|---|---|
| H226 | Flammable liquid and vapour. |
| H302 | Harmful if swallowed. |
| H312 | Harmful in contact with skin. |
| H332 | Harmful if inhaled. |
| H304 | May be fatal if swallowed and enters airways. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |
| H335 | May cause respiratory irritation. |
| H361 | Suspected of damaging fertility or the unborn child. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H411 | Toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |

Advice on any training appropriate for workers: none.

Number format : "," used as decimal separator.

End of safety data sheet.

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