

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 Product code | : SHELL AIRFRESHENER LITTLE JOE OCEAN SPLASH : CRX768, AL610 |
|------------------------------|--|
| 1.2. Relevant identified u | ses of the substance or mixture and uses advised against |
| Application | : SU21 Consumer product. PC3 Air care products for vehicles. Airfreshener. |

1.3. Details of the supplier of the safety data sheet

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

1.4. Emergency telephone number

EMERGENCY TELEPHONE NUMBER, for DOCTORS/FIRE BRIGADE/POLICE only: TR - Telephone : +908503030587

(During office hours only)

SECTION 2 HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

| CLP classification (1272/2008/EC) | : | Skin sensitization, category 1. Hazardous to the aquatic environment — Chronic category 3. |
|-----------------------------------|---|--|
| Human health hazards | : | May cause an allergic skin reaction. |
| Physical/chemical hazards | : | Not classified as dangerous according to statutory EC-Directives. |

Environmental hazards : Harmful to aquatic life with long lasting effects.

2.2. Label elements

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



| Signal word | : Warning | |
|------------------|---|--|
| H- and P-phrases | : H317 H412 P101 P102 P273 P280 gloves P302+P352 P333+P313 P501 | May cause an allergic skin reaction. Harmful to aquatic life with long lasting effects. If medical advice is needed, have product container or label at hand. Keep out of reach of children. Avoid release to the environment. Wear protective gloves. IF ON SKIN: Wash with plenty of water/soap. If skin irritation or rash occurs: Get medical advice/attention. Dispose of contents/container to an official chemical waste depot. |



According to Regulation (EU) No 2020/878

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



: Warning

Signal word

| H- and P-phrases | : H317 | May cause an allergic skin reaction. |
|------------------|-------------|---|
| | H412 | Harmful to aquatic life with long lasting effects. |
| | P101 | If medical advice is needed, have product container or label at hand. |
| | P102 | Keep out of reach of children. |
| | P280 gloves | Wear protective gloves. |
| | P302+P352 | IF ON SKIN: Wash with plenty of water/soap. |
| | P333+P313 | If skin irritation or rash occurs: Get medical advice/attention. |
| | P501 | Dispose of contents/container to an official chemical waste depot. |

Additional labelling (for all packaging sizes)

: Contains: Linalyl acetate ; Linalool ; alpha-Hexylcinnamaldehyde ; d-Limonene ; 7-

Hydroxycitronellal ; 4-tert-Butylcyclohexyl acetate ; Citronellol ; Citral ; Geraniol ; Pin-2(10)-ene .

2.3. Other hazards

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

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

3.2. Mixtures

Product description : Mixture.

Information on hazardous substances:

| Substance name | Concentration (w/w) (%) | CAS nr. | | EC number | Remark | REACH nr. |
|--|--|----------|--------|------------|------------|------------------|
| 2,6-Dimethyloct-7-en-2-ol | < 4 | 18479-5 | 58-8 | 242-362-4 | | 01-2119457274-37 |
| Linalyl acetate | < 2,5 | 115-95- | 7 | 204-116-4 | | 01-2119454789-19 |
| Linalool | < 1,25 | 78-70-6 | ; | 201-134-4 | | 01-2119474016-42 |
| 1,3,4,6,7,8-Hexahydro-4,6,6,7,8,8- hexamethylindeno[5,6-c]pyran | < 0,7 | 1222-05 | 5-5 | 214-946-9 | | 01-2119488227-29 |
| alpha-Hexylcinnamaldehyde | < 0,7 | 101-86- | -0 | 202-983-3 | | 01-2119533092-50 |
| d-Limonene | < 0,7 | 5989-27 | 7-5 | 227-813-5 | | 01-2119529223-47 |
| 7-Hydroxycitronellal | < 0,3 | 107-75- | -5 | 203-518-7 | | 01-2119973482-31 |
| 4-tert-Butylcyclohexyl acetate | < 0,25 | 32210-2 | 23-4 | 250-954-9 | | 01-2119976286-24 |
| Citronellol | < 0,25 | 106-22- | .9 | 203-375-0 | | 01-2119453995-23 |
| 2,6-Di-tert-butyl-p-cresol | < 0,25 | 128-37- | -0 | 204-881-4 | | 01-2119565113-46 |
| Citral | < 0,25 | 5392-40 | D-5 | 226-394-6 | | 01-2119462829-23 |
| Geraniol | < 0,25 | 106-24- | -1 | 203-377-1 | | 01-2119552430-49 |
| Pin-2(10)-ene | < 0,25 | 127-91- | -3 | 204-872-5 | | 01-2119519230-54 |
| Substance name | Hazard Class | | H-phra | ses | Pictograms | |
| 2,6-Dimethyloct-7-en-2-ol | Skin Irrit. 2; Eye Irrit. 2 | | H315; | H319 | GHS07 | |
| Linalyl acetate | Skin Irrit. 2; Ski | in Sens. | H315; | H317; H319 | GHS07 | |
| | 1B; Eye Irrit. 2 | | | | | |
| Linalool | Skin Irrit. 2; Ski 1B; Eye Irrit. 2 | in Sens. | H315; | H317; H319 | GHS07 | |



According to Regulation (EU) No 2020/878

| 1,3,4,6,7,8-Hexahydro-4,6,6,7,8,8- | Aquatic Acute 1; | H400; H410 | GHS09 | M (chronic) = 1 |
|------------------------------------|---|---------------------------------------|-------------------------------|-----------------|
| hexamethylindeno[5,6-c]pyran | Aquatic Chronic 1 | | | |
| alpha-Hexylcinnamaldehyde | Skin Sens. 1B; Aquatic Acute 1; Aquatic | H317; H400; H411 | GHS07; GHS09 | M (acute) = 1 |
| | Chronic 2 | | | |
| d-Limonene | | H226; H304; H315; H317; H400; H412 | GHS02; GHS07; GHS08; GHS09 | M (acute) = 1 |
| 7-Hydroxycitronellal | Skin Sens. 1B; Eye Irrit. 2 | H317; H319 | GHS07 | |
| 4-tert-Butylcyclohexyl acetate | Skin Sens. 1B | H317 | GHS07 | |
| Citronellol | Skin Irrit. 2; Skin Sens. 1B; Eye Irrit. 2 | H315; H317; H319 | GHS07 | |
| 2,6-Di-tert-butyl-p-cresol | | H400; H410 | GHS09 | M (acute) = 1 |
| Citral | Skin Irrit. 2; Skin Sens. 1B; Eye Irrit. 2 | H315; H317; H319 | GHS07 | |
| Geraniol | Skin Irrit. 2; Skin Sens. 1B; Eye Dam. 1 | H315; H317; H318 | GHS05; GHS07 | |
| Pin-2(10)-ene | - | H226; H304; H315; H317; H400; H410 | GHS02; GHS07; GHS08; GHS09 | |

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 | : May cause redness and irritation, sensitisation. May produce an allergic reaction. May cause dry skin. |
| Eye contact Ingestion | May cause stinging of eyes and redness.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 | : | Carbon monoxide may be evolved if incomplete combustion occurs. |
| decomposition products | | |

5.3. Advice for firefighters

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

SECTION 6 ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

| Personal precautions | : Danger of slipping. Clean up spills immediately. Wear shoes with non-slip soles. Avoid contact with |
|----------------------|---|
| | spilled or released material. |

6.2. Environmental precautions

Environmental precautions : Avoid release of product into sewers, surface water and/or ground water. In case of large spills: contain with dike. Waste product should not be allowed to contaminate soil or water. Other information : Notify authorities if any exposure to the general public or the environment occurs or is likely to occur.

6.3. Methods and material for containment and cleaning up

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

6.4. Reference to other sections

Reference to other sections : See also section 8.

SECTION 7 HANDLING AND STORAGE

7.1. Precautions for safe handling

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

7.2. Conditions for safe storage, including any incompatibilities

| Storage Recommended packaging | Keep frost-free, in a cool, dry and well-ventilated place (< 35 °C). Keep away from oxidizing agents. 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 have not been established for this product. Derived no-effect levels Occupational exposure (DNEL) have not been established for this product. Predicted no-effect concentrations (PNEC) have limits not been established for this product.

Workplace exposure limits (mg/m³):

| Chemical name | , | | STEL 15 min (mg/m3) | Comments | Source |
|----------------------------|----|----|------------------------|----------|--------|
| 2,6-Di-tert-butyl-p-cresol | GB | 10 | - | - | |

Derived no-effect level (DNEL) for workers:

| Chemical name | Route of | DNEL, short-term D | | DNEL, long-term | |
|------------------------------------|------------|--------------------|-----------------|-----------------|--------------------|
| | exposure | | | | |
| | | Local effect | Systemic effect | Local effect | Systemic effect |
| 2,6-Dimethyloct-7-en-2-ol | Dermal | | | | 7 mg/kg bw/day |
| | Inhalation | | | | 24.7 mg/m3 |
| Linalyl acetate | Dermal | 0,2362 mg/kg | | 0,2362 mg/kg | 2,5 mg/kg bw/day |
| | | bw | | 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 |
| 1,3,4,6,7,8-Hexahydro-4,6,6,7,8,8- | Dermal | | | | 28,85 mg/kg bw/day |
| hexamethylindeno[5,6-c]pyran | | | | | |
| | Inhalation | | | | 5,29 mg/m3 |
| alpha-Hexylcinnamaldehyde | Inhalation | 6,28 mg/m3 | | | 0,078 mg/m3 |
| | Dermal | 0,525 mg/kg | | 0,525 mg/kg bw/ | 18,2 mg/kg bw/day |
| | | bw | | day | |
| d-Limonene | Inhalation | | | | 66,7 mg/m3 |
| | Dermal | | | | 9,5 mg/kg bw/day |
| 7-Hydroxycitronellal | Inhalation | | | | 18 mg/m3 |
| | Dermal | | | 0.5 mg/kg bw/ | 1,9 mg/kg bw/day |
| | | | | day | |
| Citronellol | Inhalation | 10 mg/m3 | | 10 mg/m3 | 161,6 mg/m3 |
| | Dermal | 2,950 mg/kg | | | 327,4 mg/kg bw/day |
| | | bw | | | |
| 2,6-Di-tert-butyl-p-cresol | Inhalation | | | | 3,5 mg/m3 |
| | Dermal | | | | 0,5 mg/kg bw/day |
| Citral | Inhalation | | | | 9 mg/m3 |
| | Dermal | | | | 1,7 mg/kg bw/day |
| Geraniol | Inhalation | | | | 161,6 mg/m3 |
| | Dermal | | | | 12,5 mg/kg bw/day |
| Pin-2(10)-ene | Inhalation | | | | 5,69 mg/m3 |
| | Dermal | | | 0,054 mg/kg bw/ | 0,8 mg/kg bw/day |
| | | | | day | |

Derived no-effect level (DNEL) for consumers:

| Chemical name | Route of | DNEL, short-ter | m | DNEL, long-term | |
|---------------------------|------------|-----------------|-----------------|-----------------|------------------|
| | exposure | | | | |
| | 7 | 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 |



According to Regulation (EU) No 2020/878

| Linalyl acetate | Dermal | 0,2362 mg/kg | 0,2362 mg/kg | 1,25 mg/kg bw/day |
|--|------------|--------------|-----------------|--------------------|
| | | bw | 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/ | 1.25 mg/kg bw/day |
| | | | day | |
| | Inhalation | | | 4.33 mg/m3 |
| | Oral | | | 2.49 mg/kg bw/day |
| 1,3,4,6,7,8-Hexahydro-4,6,6,7,8,8- hexamethylindeno[5,6-c]pyran | Dermal | | | 14,43 mg/kg bw/day |
| | Inhalation | | | 1,3 mg/m3 |
| | Oral | | | 0,75 mg/kg bw/day |
| alpha-Hexylcinnamaldehyde | Inhalation | 4,71 mg/m3 | | 0,019 mg/m3 |
| | Dermal | 0,0787 mg/kg | 0,0787 mg/kg | 9,11 mg/kg bw/day |
| | | bw | bw/day | |
| | Oral | | | 0,056 mg/kg bw/day |
| d-Limonene | Inhalation | | | 16,6 mg/m3 |
| | Dermal | | | 4,8 mg/kg bw/day |
| | Oral | | | 4,8 mg/kg bw/day |
| 7-Hydroxycitronellal | Inhalation | | | 5,4 mg/m3 |
| | Dermal | | 0.5 mg/kg bw/ | 1,1 mg/kg bw/day |
| | | | day | |
| | Oral | | | 0,6 mg/kg bw/day |
| Citronellol | Inhalation | 10 mg/m3 | 10 mg/m3 | 47,8 mg/m3 |
| | Dermal | 2,950 mg/kg | _ | 196,4 mg/kg bw/day |
| | | bw | | |
| | Oral | | | 13,8 mg/kg bw/day |
| 2,6-Di-tert-butyl-p-cresol | Inhalation | | | 0,86 mg/m3 |
| | Dermal | | | 0,25 mg/kg bw/day |
| | Oral | | | 0,25 mg/kg bw/day |
| Citral | Dermal | | | 1 mg/kg bw/day |
| | Inhalation | | | 2,7 mg/m3 |
| | Oral | | | 0,6 mg/kg bw/day |
| Geraniol | Inhalation | | | 47,8 mg/m3 |
| | Dermal | | | 7,5 mg/kg bw/day |
| | Oral | | | 13,75 mg/kg bw/day |
| Pin-2(10)-ene | Inhalation | | | 1 mg/m3 |
| | Dermal | | 0,027 mg/kg bw/ | 0,3 mg/kg bw/day |
| | | | day | |
| | Oral | | | 0,3 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 |
| 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 | |



According to Regulation (EU) No 2020/878

| | Intermittent water | | | 2 mg/l |
|--|---------------------------|----------------------------|-----------------------------|--------------------------|
| | STP | | | 10 mg/l |
| | Soil | | | 0,327 mg/kg |
| | Oral | | | 7,8 mg/kg food |
| 1,3,4,6,7,8-Hexahydro-4,6,6,7,8,8- hexamethylindeno[5,6-c]pyran | Water | 0,0044 mg/l | 0,0004 mg/l | |
| | Sediment | 2 mg/kg | 0,394 mg/kg | |
| | Intermittent water | | | 0,047 mg/l |
| | STP | | | 1 mg/l |
| | Soil | | | 0,31 mg/kg |
| | Oral | | | 3,3 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 |
| d-Limonene | Water | 0.014 mg/l | 0.0014 mg/l | |
| | Sediment | 3.85 mg/kg | 0.385 mg/kg | |
| | STP | | | 1.8 mg/l |
| | Soil | | | 0.763 mg/kg |
| | Oral | | | 133 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 |
| 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 |
| Citronellol | Water | 0.002 mg/l | 0 mg/l | |
| | Sediment | 0.026 mg/kg | 0.003 mg/kg | |
| | Intermittent water | | | 0,024 mg/l |
| | STP | | | 580 mg/l |
| | Soil | | | 0.004 mg/kg |
| 2,6-Di-tert-butyl-p-cresol | Water | 0,000199 mg/l | 0,00002 mg/l | |
| | Sediment | 0,0996 mg/kg | 0,00996 mg/kg | 0.47 |
| | STP | | | 0,17 mg/l |
| | Soil | | | 0,04769 mg/kg |
| 0:+1 | Oral | 0.00070 | 0.000070 | 8,33 mg/kg food |
| Citral | Water | 0,00678 mg/l | 0,000678 mg/l | |
| | Sediment | 0,125 mg/kg | 0,0125 mg/kg | 0.0070 mm/ |
| | Intermittent water STP | | | 0,0678 mg/l |
| | | | | 1,6 mg/l |
| Goranial | Soil Wator | 0,0108 mg/l | 0,0010 mg/l | 0,0209 mg/kg |
| Geraniol | Water Sediment | 0,0108 mg/i 0,115 mg/kg | 0,0010 mg/i 0,0115 mg/kg | |
| | Intermittent water | 0, 115 mg/kg | 0,0115 mg/kg | 0.108 mg/l |
| | STP | | | 0,108 mg/l 0.7 mg/l |
| | Soil | | | 0,7 mg/l 0.0167 mg/kg |
| $\operatorname{Pin} 2(10)$ one | Soll Water | 0.001001 mal | 0.0001 mall | 0,0167 mg/kg |
| Pin-2(10)-ene | Sediment | 0,001004 mg/l | 0,0001 mg/l | |
| | | 0,337 mg/kg | 0,034 mg/kg | 2.06 mg/l |
| | STP | I | | 3,26 mg/l |



According to Regulation (EU) No 2020/878

| Soil | | 0,067 mg/kg |
|------|--|-----------------|
| Oral | | 13,1 mg/kg food |
| | | |

8.2. Exposure controls

Engineering measures Hygienic measures

: Comply with standard precautionary measures for working with chemicals.

: 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 Colour Odour | : Liquid. : Light yellow. : Perfumed. | Impregnated material. |
|--|---|---|
| Odour threshold | : Not known. | Not measured. Not relevant. Does not contain substances with a specific inhalation risk. |
| pH | : Not applicable. | Waterfree product. |
| Solubility in water | : Not soluble. | |
| Partition coefficient (n-oc- tanol/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 | : > 200 °C | |
| Boiling point/boiling range | : > 100 °C | |
| Melting point/melting range | : Not known. | |
| Explosive properties | : Not an explosive. | |
| Explosion limits (% in air) | : Not known. | Lower explosion limit in air (%): 0,7 (Linalyl acetate) Upper explosion limit in air (%): 5,2 (Linalool) |
| Ovidicing proportios | : Not applicable | |
| Oxidising properties | : Not applicable. | Does not contain oxidizing substances. |
| Decomposition temperature | : Not applicable. | |
| Viscosity (20°C) | | The product contains < 10% substances having an expiration becaud |
| Viscosity (40°C) | : Not relevant. | The product contains < 10% substances having an aspiration hazard. |
| Vapour pressure (20°C) | : Not known. | (-:- 4) |
| Relative vapour density | : >1 | (air = 1) |
| Relative density (20°C) | : 1 g/ml | |
| Particle characteristics | : Not applicable. | Liquid. |



According to Regulation (EU) No 2020/878

9.2. Other information

Other information : Not relevant.

SECTION 10 STABILITY AND REACTIVITY

| 10.1. Reactivity | | |
|--------------------------|---|----|
| Reactivity | : | Se |
| 10.2. Chemical stability | | |

ee sub-sections below.

10.2. Chemical stability

: Stable under normal conditions. Stability

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 : Not known. products

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: 4 %. ATE: > 5 mg/l. Low toxicity. Not classified - based on available data, the classification criteria are not met. No specific effects and/or symptoms are known. |
|------|----------------------|--|
| | 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 | : Not classified - based on available data, the classification criteria are not met. |
| | 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. |
| | | |
| | | |



According to Regulation (EU) No 2020/878

Ingestion

| esuon | |
|----------------------|---|
| 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 | Not expected to be an aspiration hazard. Contains a substance/substances with an aspiration hazard. Not classified - based on available data, the classification criteria are not met. |
| Corrosion/irritation | : May cause a feeling of sickness, vomiting and diarrhoea. |
| Carcinogenicity | : Does not contain carcinogenic substances. Not classified - based on available data, the classification criteria are not met. |
| Mutagenicity | : Does not contain mutagenic substances. Not classified - based on available data, the classification criteria are not met. |
| Reprotoxicity | : Development: Not expected to be reprotoxic. Development: Not classified - Based on available data, the classification criteria are not met. Fertility: not expected to be reprotoxic. Fertility: Not classified - based on available data, the classification criteria are not met. |

Toxicological information:

| Chemical name | Property | | Method | Test animal |
|---------------------------|---------------------------|-------------------|----------------------|------------------------|
| Linalyl acetate | Outdoor cleaners | 1000 mg/kg bw/d | OECD 414 | Rat |
| | (excludes stone, | | | |
| | concrete and similar | | | |
| | surfaces) | | | |
| | LD50 (oral) | 13934 mg/kg bw | | Rat |
| | LC50 (inhalation) | > 2740 mg/m3 | | Mouse |
| | Skin irritation | Non-irritant | | Human |
| | Skin irritation | Irritant | OECD 404 | Rabbit |
| | Eye irritation | Irritant | OECD 405 | Rabbit |
| | NOAEL (oral) | 160 mg/kg bw/d | OECD 407 | Rat |
| | NOAEL (dermal) | 250 mg/kg bw/d | OECD 411 | Rat |
| | Mutagenicity | Not mutagenic | OECD 471 | Salmonella typhimurium |
| | Genotoxicity - in vitro | Not genotoxic | OECD 476 | Mouse |
| | Genotoxicity - in vivo | Not genotoxic | OECD 474 | Mouse |
| | NOAEL (development, | > 1000 mg/kg bw/d | OECD 414 | Rat |
| | oral) | | | |
| | LC50 (inhalation) - | > 5000 mg/m3 | | Rat |
| | estimate | | | |
| | Skin sensitisation | Sensitizing. | OECD 429 | Mouse |
| Linalool | NOAEL (development, | 365 mg/kg bw/d | | Rat |
| | oral) | | | |
| | 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 |
| alpha-Hexylcinnamaldehyde | NOAEL (development, oral) | 100 mg/kg bw/d | OECD 421 | Rat |
| | Genotoxicity - in vivo | Not genotoxic | OECD 474 | |
| | Genotoxicity - in vitro | | OECD 474 OECD 476 | |
| | 1 | Not genotoxic | OECD 476 OECD 471 | Colmonollo trabimurium |
| | Mutagenicity | Negative | | Salmonella typhimurium |
| l | Eye irritation | Non-irritant | I | Rabbit |



According to Regulation (EU) No 2020/878

| | NOAEL (oral) - | 30 mg/kg bw/d | Read across | Rat |
|---|-------------------------|---------------------|----------------------|------------------------|
| | estimate | | | |
| | 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 |
| d-Limonene | Genotoxicity - in vivo | > 2000 mg/kg bw/d | | Rat |
| | NOEL (carcinogenicity, | | OECD 451 | Rat |
| | oral) | | | |
| | Eye irritation | Non-irritant | OECD 405 | Rabbit |
| | Mutagenicity | Negative | OECD 471 | |
| | Skin sensitisation | 5500 ug/cm2 | OECD 429 | Mouse |
| | NOAEL (development, | 600 mg/kg bw/d | | Rat |
| | oral) | | | |
| | Skin irritation | Irritant | | |
| | LD50 (dermal) | > 2000 mg/kg bw | | Rabbit |
| | LD50 (oral) | > 2000 mg/kg bw | OECD 423 | Rat |
| | Genotoxicity - in vitro | Not genotoxic | | |
| | NOAEL (oral) | 150 mg/kg bw/d | | Rat |
| 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) | Not carcinogenic | | |
| | - estimate | gene gene | | |
| | Mutagenicity | Negative | OECD 471 | Salmonella typhimurium |
| 4-tert-Butylcyclohexyl acetate | LD50 (oral) | 5000 mg/kg bw | | Rat |
| ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | LD50 (dermal) | > 5000 mg/kg bw | | Rabbit |
| | Eye irritation | Non-irritant | | Rabbit |
| | Skin irritation | Non-irritant | | Rabbit |
| | NOAEL (oral) - | 710 mg/kg bw/d | Read across | |
| | estimate | | | |
| Citronellol | Genotoxicity - in vitro | Not genotoxic | | |
| | Skin sensitisation | 10875 ug/cm2 | OECD 429 | Mouse |
| | Mutagenicity | Not mutagenic | OECD 471 | Salmonella typhimurium |
| | NOAEL (oral) | > 50 mg/kg bw/d | | Rat |
| | Skin irritation | Moderately irritant | | Rabbit |
| | LD50 (oral) | 3450 mg/kg bw | | Rat |
| | LD50 (dermal) | 2650 mg/kg bw | | Rabbit |
| | NOAEL (fertility, | 300 mg/kg bw/d | OECD 421 | Rat |
| | dermal) | | | |
| | NOAEL (developmental | > 300 mg/kg bw/d | OECD 421 | Rat |
| | toxicity, dermal) | | | |
| | Skin irritation | Moderately irritant | Patch test | Human |
| | | | 1 | |
| | | | | Rabbit |
| Citral | Eye irritation | Moderately irritant | OECD 421 | Rabbit Rat |
| Citral | | | OECD 421 OECD 474 | Rabbit Rat Mouse |



According to Regulation (EU) No 2020/878

| | Skin irritation | Moderately irritant | | Rabbit |
|---------------|-----------------------------------|---------------------|-------------|------------------------|
| | Skin irritation | Irritant | | Human |
| | Skin sensitisation | Sensitizing. | OECD 406 | Guinea pig |
| | NOAEL (developmental | 423 mg/m3 | | Rat |
| | toxicity, inh.) | | | |
| | NOEL (carcinogenicity, oral) | > 100 mg/kg bw/d | OECD 453 | Rat |
| | Mutagenicity | Negative | OECD 471 | |
| | LD50 (oral) | 4960 mg/kg bw | | Rat |
| | Genotoxicity - in vitro | Not genotoxic | | |
| | NOAEL (oral) | 833 mg/kg bw/d | | Rat |
| | LD50 (dermal) | 2250 mg/kg bw | | Rabbit |
| | | 200 mg/kg bw/d | OECD 421 | Rat |
| Geraniol | NOEL (oral) | > 550 mg/kg bw/d | | Rat |
| | LD50 (dermal) | > 5000 mg/kg bw | | Rabbit |
| | LD50 (oral) | > 2840 mg/kg bw | | Rat |
| | NOEL (carcinogenicity) - estimate | | Read across | |
| | NOAEL (dermal) | 300 mg/kg bw/d | OECD 421 | Rat |
| | Genotoxicity - in vitro | Not genotoxic | OECD 476 | Chinese Hamster |
| | Genotoxicity - in vivo | Not genotoxic | OECD 474 | Mouse |
| | Mutagenicity | Negative | OECD 471 | Salmonella typhimurium |
| | NOAEL (developmental | | OECD 421 | Rat |
| | toxicity, dermal) | | 0200 121 | |
| | NOAEL (fertility, dermal) | > 300 mg/kg bw/d | OECD 421 | Rat |
| | Skin sensitisation | 3525 ug/cm2 | OECD 429 | Mouse |
| Pin-2(10)-ene | Skin sensitisation | Sensitizing. | OECD 429 | Mouse |
| | Eye irritation | Moderately irritant | OECD 405 | Rabbit |
| | | 250 mg/kg.d | Read across | |
| | - estimate | | | |
| | Skin irritation | Irritant | | |
| | Mutagenicity | Negative | OECD 471 | Salmonella typhimurium |
| | LD50 (oral) | > 5000 mg/kg bw | | Rat |
| | LD50 (dermal) | > 5000 mg/kg bw | | Rabbit |

11.2. Information on other hazards

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

SECTION 12 ECOLOGICAL INFORMATION

12.1. Toxicity

No ecotoxicological research has been carried out on this product. Ecotoxicity : Harmful to aquatic organisms. Calculated LC50 (fish): 67 mg/l. Calculated EC50 (waterflea): 40 mg/ I. 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



According to Regulation (EU) No 2020/878

Kemetyl

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 : Not applicable. properties

12.7. Other adverse effects

Other adverse effects : Not applicable.

Ecological information:

| Chemical name | Property | | Method | Test animal |
|------------------------------------|--------------------|---|------------|---------------------|
| 1,3,4,6,7,8-Hexahydro-4,6,6,7,8,8- | Ultimate aerobic | 2 % | OECD 301 B | |
| hexamethylindeno[5,6-c]pyran | biodegradation (%) | | | |
| | IC50 (algea) | > 0,85 mg/l | OECD 201 | Pseudokirchnerella |
| | | - | | subcapitata |
| | NOEC (waterflea) - | 0,111 mg/l.d | OECD 202 | Daphnia magna |
| | chronic | | | - |
| | LC50 (fish) | 1,36 mg/l | OECD 204 | Lepomis macrochirus |
| | NOEC (fish) | 0,068 mg/l.d | OECD 210 | Pimephales promelas |
| | EC50 (waterflea) | 0,47 mg/l | | · · |
| 1,3,4,6,7,8-Hexahydro-4,6,6,7,8,8- | Log P(ow) | 5,9 | | |
| nexamethylindeno[5,6-c]pyran | | | | |
| 1,3,4,6,7,8-Hexahydro-4,6,6,7,8,8- | BCF | 1584 | | |
| nexamethylindeno[5,6-c]pyran | | | | |
| 2,6-Di-tert-butyl-p-cresol | NOEC (waterflea) - | 0,23 mg/l | OECD 202 | Daphnia magna |
| | acute | | | |
| | NOEC (waterflea) - | 0,316 mg/l.d | OECD 202 | Daphnia magna |
| | chronic | , | | |
| | IC50 (algea) | > 0,4 mg/l | OECD 201 | Desmodesmus |
| | | 5 | | subspicatus |
| | EC50 (waterflea) | 0,61 mg/l | OECD 202 | Daphnia magna |
| | Ultimate aerobic | 4,5 % | OECD 301 C | |
| | biodegradation (%) | ., | | |
| | EC0 (waterflea) | 0,31 mg/l | OECD 202 | Daphnia magna |
| | LC50 (bacteria) | > 10000 mg/l | | |
| | LC50 (fish) | > 5000 mg/l | OECD 203 | Brachydanio rerio |
| 2,6-Di-tert-butyl-p-cresol | Log P(ow) | 5,1 | | |
| 2,6-Di-tert-butyl-p-cresol | BCF | 598,4 | | |
| 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 | 76 % | OECD 301 D | |
| | biodegradation (%) | | | |
| | IC50 (algea) | 0,826 mg/l | OECD 201 | Pseudokirchnerella |
| | | 5,520 mg/i | | subcapitata |
| Pin-2(10)-ene | Log P(ow) | 4,4 | | |
| | | ., ' | | |

SECTION 13 DISPOSAL CONSIDERATIONS

Product name Date of issue



13.1. Waste treatment methods

| Product residues | : Do not dispose empty pack with waste produced by households. Containers may be recycled. Treat product residues, impregnated wipes and non-empty pack as hazardous waste. |
|--------------------------|--|
| Additional warning | : None. |
| Waste water discharge | : Do not dispose into the environment, in drains or in water courses. |
| European waste catalogue | : Dispose hazardous waste in accordance with Directive 91/689/EEC under acknowledgement of a waste code according to Commission Decision 2000/532/EC to an official chemical waste depot. |
| Local legislation | : Disposal should be in accordance with applicable regional, national, and local laws and regulations. Local regulations may be more stringent than regional or national requirements and must be complied with. |

SECTION 14 TRANSPORT INFORMATION

14.1. UN number or ID number

UN nr. : None.

14.2. UN proper shipping name

Transport name : Not regulated.

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

| ADR/RID/ADN (road/railway/inland waterways) Class : This product is not classified according to ADR/RID/ADN. | | | | |
|---|---|--|--|--|
| IMDG (sea) | | | | |
| Class Marine pollutant | : This product is not classified according to IMDG. : No | | | |
| IATA (air) | | | | |
| Class | : This product is not classified according to IATA. | | | |
| 14.6. Special precautions for user | | | | |

Other information : Country specific variations may apply.

14.7. Maritime transport in bulk according to IMO instruments

: Not intended to be carried in bulk according to International Maritime Organisation (IMO) Marpol 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 | : | Not applicable. |
|-----------------|---|-----------------|
| assessment | | |

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 Sens. 1/1A/1B | : Calculation method. |
|--------------------|-----------------------|
| Aquatic Chronic 3 | : Calculation method. |

Full text of hazard classes mentioned in section 3:

| Flam. Liq. 3 | : Flammable liquid, category 3. |
|--------------------|--|
| Skin Irrit. 2 | : Skin irritation, category 2. |
| Eye Dam. 1 | : Serious eye damage, category 1. |
| Eye Irrit. 2 | : Eye irritation, category 2. |
| Skin Sens. 1/1A/1B | : Skin sensitization, category 1/1A/1B. |
| Asp. Tox. 1 | : Aspiration hazard, category 1. |
| Aquatic Chronic 1 | : Hazardous to the aquatic environment — Chronic category 1. |
| Aquatic Chronic 2 | : Hazardous to the aquatic environment — Chronic category 2. |
| Aquatic Chronic 3 | : Hazardous to the aquatic environment — Chronic category 3. |
| Aquatic Acute 1 | : Hazardous to the aquatic environment — Acute category 1. |



According to Regulation (EU) No 2020/878

| Full text of H-phrases mentioned in section 3: | | |
|---|---|--|
| H226 | Flammable liquid and vapour. | |
| H304 | May be fatal if swallowed and enters airways. | |
| H315 | Causes skin irritation. | |
| H317 | May cause an allergic skin reaction. | |
| H318 | Causes serious eye damage. | |
| H319 | Causes serious eye irritation. | |
| H400 | Very toxic to aquatic life. | |
| H410 | Very toxic to aquatic life with long lasting effects. | |
| H411 | Toxic to aquatic life with long lasting effects. | |
| H412 | Harmful to aquatic life with long lasting effects. | |
| Advice on any training appropriate for workers: none. | | |

Number format : "," used as decimal separator.

End of safety data sheet.

Print date : 2022-02-24