



**Kemetyl**

# Safety data sheet

According to Regulation (EU) No 2015/830

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

### 1.1. Product identifier

Product name : SHELL AIR FRESHENER NEW CAR  
Product code : CRX722, AL61C; AL64P

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

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

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

Supplier : 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 : Hazardous to the aquatic environment — Chronic category 3.  
(1272/2008/EC)

Human health hazards : May produce an allergic 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 : None.

Signal word : Not applicable.

H- and P-phrases : H412 Harmful to aquatic life with long lasting effects.  
EUH208 Contains ... May produce an allergic reaction. Reference is made to additional labelling for full text of EUH208\*.  
P102 Keep out of reach of children.  
P273 Avoid release to the environment.  
P501 Dispose of contents/container to an official chemical waste depot.

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

Hazard pictograms : None.

Signal word : Not applicable.

H- and P-phrases : H412 Harmful to aquatic life with long lasting effects.  
EUH208 Contains ... May produce an allergic reaction. Reference is made to additional labelling for full text of EUH208\*.



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P102 Keep out of reach of children.

Additional labelling (for all packaging sizes)

: \* Contains 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one ; 4-tert-Butylcyclohexyl acetate ; Benzyl salicylate ; Linalool ; d-Limonene ; 3-p-Cumenyl-2-methylpropionaldehyde ; Pentadecan-15-olide . May produce an allergic reaction.

## 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.        |
|---|-------------------------|------------|-----------|--------|------------------|
| 3-p-Cumenyl-2-methylpropionaldehyde                                     | < 0,25                  | 103-95-7   | 203-161-7 |        |                  |
| Pentadecan-15-olide   | < 0,15                  | 106-02-5   | 203-354-6 |        | 01-2119987323-31 |
| 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one | < 1                     | 54464-57-2 | 259-174-3 |        |                  |
| 1,3,4,6,7,8-Hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran          | < 0,75                  | 1222-05-5  | 214-946-9 |        | 01-2119488227-29 |
| d-Limonene  | < 0,25                  | 5989-27-5  | 227-813-5 |        |                  |
| 4-tert-Butylcyclohexyl acetate  | < 1                     | 32210-23-4 | 250-954-9 |        | 01-2119976286-24 |
| Benzyl salicylate   | < 1                     | 118-58-1   | 204-262-9 |        |                  |
| Linalool  | < 0,5                   | 78-70-6    | 201-134-4 |        |                  |

| Substance name  | Hazard Class  | H-phrases                          | Pictograms                               |                 |
|---|---|------------------------------------|--|-----------------|
| 3-p-Cumenyl-2-methylpropionaldehyde                                     | Skin Irrit. 2; Skin Sens. 1B; Aquatic Chronic 3   | H315; H317; H412                   | GHS07; GHS07                             |                 |
| Pentadecan-15-olide   | Skin Sens. 1B; Aquatic Chronic 2  | H317; H411                         | GHS07; GHS09                             |                 |
| 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one | Skin Irrit. 2; Skin Sens. 1B; Aquatic Chronic 1   | H315; H317; H410                   | GHS07; GHS07; GHS09                      | M (chronic) = 1 |
| 1,3,4,6,7,8-Hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran          | Aquatic Acute 1; Aquatic Chronic 1  | H400; H410                         | GHS09; GHS09                             | M (chronic) = 1 |
| d-Limonene  | 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; GHS08; GHS07; GHS07; GHS09; GHS09 | M (acute) = 1   |
| 4-tert-Butylcyclohexyl acetate  | Skin Sens. 1B   | H317                               | GHS07                                    |                 |
| Benzyl salicylate   | Skin Sens. 1; Eye Irrit. 2; Aquatic Chronic 3   | H317; H319; H412                   | GHS07; GHS07                             |                 |
| Linalool  | Skin Irrit. 2; Skin Sens. 1B; Eye Irrit. 2  | H315; H317; H319                   | GHS07; GHS07; GHS07                      |                 |

Occupational exposure limit(s), if relevant, are listed in section 8.

Reference is made to chapter 16 for full text of each relevant H phrase.

## SECTION 4 FIRST-AID MEASURES



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## 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 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 : Carbon dioxide (CO<sub>2</sub>). Foam. Dry chemical. Water fog.
- Not suitable : Water jet.

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

- Special exposure hazards : None known.
- Hazardous thermal decomposition products : Carbon monoxide may be evolved if incomplete combustion occurs.

### 5.3. Advice for firefighters

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

## SECTION 6 ACCIDENTAL RELEASE MEASURES

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

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

### 6.2. Environmental precautions

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

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



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

## 6.4. Reference to other sections

Reference to other sections : See also section 8.

## SECTION 7 HANDLING AND STORAGE

### 7.1. Precautions for safe handling

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

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

Storage : Keep frost-free, in a cool, dry and well-ventilated place (< 35 °C). Keep away from oxidizing agents.  
Recommended packaging : Keep only in the original container.  
Non recommended packaging : None known.

### 7.3. Specific end use(s)

Use : Use only as directed.

## SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

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

Workplace exposure limits (mg/m<sup>3</sup>):

| Chemical name | Country | TWA 8 hour (mg/m <sup>3</sup> ) | STEL 15 min (mg/m <sup>3</sup> ) | Comments | Source          |
|---------------|---------|---------------------------------|----------------------------------|----------|-----------------|
| d-Limonene    |         | 110                             | -                                |          | MAC: DE, CH, NL |

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        |
| 3-p-Cumenyl-2-methylpropionaldehyde                                     | Inhalation        |                  |                        |                 | 5,83 mg/m <sup>3</sup> |
| 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one | Dermal            |                  |                        |                 | 1,67 mg/kg bw/day      |
|   | Inhalation        |                  |                        |                 | 1,76 mg/m <sup>3</sup> |
| 1,3,4,6,7,8-Hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran          | Dermal            | 0,1011 mg/kg bw  |                        |                 | 1,73 mg/kg bw/day      |
|   | Inhalation        |                  |                        |                 | 28,85 mg/kg bw/day     |
| d-Limonene  | Inhalation        |                  |                        |                 | 5,29 mg/m <sup>3</sup> |
|   | Inhalation        |                  |                        |                 | 33,3 mg/m <sup>3</sup> |
| Benzyl salicylate   | Inhalation        |                  |                        |                 | 3,17 mg/m <sup>3</sup> |
|   | Dermal            |                  |                        |                 | 0,9 mg/kg bw/day       |
| Linalool  | Inhalation        |                  | 16,5 mg/m <sup>3</sup> |                 | 2,8 mg/m <sup>3</sup>  |
|   | Dermal            | 3 mg/kg bw       | 5 mg/kg bw             | 3 mg/kg bw/day  | 2,5 mg/kg bw/day       |



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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    |
| 3-p-Cumenyl-2-methylpropionaldehyde                                    | Inhalation        |                  |                 |                 | 1,45 mg/m3         |
|  | Dermal            |                  |                 |                 | 0,83 mg/kg bw/day  |
|  | Oral              |                  |                 |                 | 0,83 mg/kg bw/day  |
| 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphtyl)ethan-1-one | Inhalation        |                  |                 |                 | 0,43 mg/m3         |
|  | Dermal            | 0,0506 mg/kg bw  |                 |                 | 0,86 mg/kg bw/day  |
|  | Oral              |                  |                 |                 | 0,25 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          |
| d-Limonene   | Oral              |                  |                 |                 | 0,75 mg/kg bw/day  |
|  | Inhalation        |                  |                 |                 | 8,33 mg/m3         |
| Benzyl salicylate  | Oral              |                  |                 |                 | 4,76 mg/kg bw/day  |
|  | Inhalation        |                  |                 |                 | 0,78 mg/m3         |
| Linalool   | Dermal            | 1,5 mg/kg bw     | 2,5 mg/kg bw    | 15 mg/kg bw/day | 0,45 mg/kg bw/day  |
|  | Oral              |                  |                 |                 | 0,45 mg/kg bw/day  |
|  | Inhalation        |                  | 4,1 mg/m3       |                 | 0,7 mg/m3          |
|  | Oral              |                  | 1,2 mg/kg bw    |                 | 0,2 mg/kg bw/day   |

Predicted no-effect concentration (PNEC):

| Chemical name  | Route of exposure  | Fresh water  | Marine water |                  |
|--|--------------------|--------------|--------------|------------------|
| 3-p-Cumenyl-2-methylpropionaldehyde                            | Water              | 0,00109 mg/l | 0,00011 mg/l |                  |
|  | Sediment           | 0,126 mg/kg  | 0,0126 mg/kg |                  |
|  | Intermittent water |              |              | 0,01092 mg/l     |
|  | STP                |              |              | 1 mg/l           |
|  | Soil               |              |              | 0,0245 mg/kg     |
| Pentadecan-15-olide  | Water              | 0,0027 mg/l  | 0,00027 mg/l |                  |
|  | Sediment           | 21 mg/kg     | 4,2 mg/kg    |                  |
|  | STP                |              |              | 10 mg/l          |
|  | Soil               |              |              | 10 mg/kg         |
|  | Oral               |              |              |                  |
| 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   |
| d-Limonene   | Water              | 0,0054 mg/l  | 0,0005 mg/l  |                  |
|  | Sediment           | 1,32 mg/kg   | 0,13 mg/kg   |                  |
|  | STP                |              |              | 1,8 mg/l         |
|  | Soil               |              |              | 0,262 mg/kg      |
|  | Oral               |              |              | 3,33 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 |
| Benzyl salicylate  | Water              | 0,00103 mg/l | 0,00010 mg/l |                  |



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|          |                    |             |              |                |
|----------|--------------------|-------------|--------------|----------------|
| Linalool | Sediment           | 0,583 mg/kg | 0,0583 mg/kg |                |
|          | Intermittent water |             |              | 0,01030 mg/l   |
|          | STP                |             |              | 10 mg/l        |
|          | Soil               |             |              | 0,116 mg/kg    |
|          | Oral               |             |              | 80 mg/kg food  |
|          | 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 |
|          |                    |             |              |                |
|          |                    |             |              |                |
|          |                    |             |              |                |

## 8.2. Exposure controls

Engineering measures : Comply with standard precautionary measures for working with chemicals.  
Hygienic measures : When using do not eat, drink or smoke.

Personal protective equipment:

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

- Body protection : Use of specific protective industrial clothing is not required under normal conditions of use. In case of large scale exposure wear suitable protective clothing, overalls or suit, and similar boots. Suitable material: laminated film. Indication of permeation breakthrough time: 6 hours.
- 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 : Under normal conditions of use specific gloves are not required. Wear appropriate gloves in case of frequent or prolonged use and in case of large scale exposure. Suitable material: laminated film. ± 0,5 mm. Indication of permeation breakthrough time: 6 hours.
- 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

|   |                   |  |
|---|-------------------|--|
| Appearance                              | : Liquid.         | Impregnated material.  |
| Colour                                  | : Light yellow.   |  |
| Odour                                   | : Perfumed.       |  |
| Odour threshold                         | : Not known.      |  |
| pH                                      | : Not applicable. | Waterfree product.   |
| Solubility in water                     | : Not soluble.    |  |
| Partition coefficient (n-octanol/water) | : Not known.      | Not measured. Not relevant for mixtures.                           |
| Flash point                             | : > 100 °C        |  |
| 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                    | : None known.     | Does not contain explosives.                                       |
| Explosion limits (% in air)             | : Not known.      |  |
| Oxidising properties                    | : Not applicable. | Does not contain oxidizing substances.                             |
| Decomposition temperature               | : Not applicable. |  |
| Viscosity (20°C)                        | : Not known.      |  |
| Viscosity (40°C)                        | : Not relevant.   | The product contains < 10% substances having an aspiration hazard. |
| Vapour pressure (20°C)                  | : Not known.      |  |
| Vapour density (20°C)                   | : > 1             | (air = 1)  |



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Relative density (20°C) : 1 g/ml  
Evaporation rate : Not known. (n-butyl acetate = 1)

## 9.2. Other information

Other information : Not relevant.

## SECTION 10 STABILITY AND REACTIVITY

### 10.1. Reactivity

Reactivity : See sub-sections below.

### 10.2. Chemical stability

Stability : Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Reactivity : No other hazardous reactions known.

### 10.4. Conditions to avoid

Conditions to avoid : See section 7.

### 10.5. Incompatible materials

Materials to avoid : Keep away from oxidizing agents.

### 10.6. Hazardous decomposition products

Hazardous decomposition products : Not known.

## SECTION 11 TOXICOLOGICAL INFORMATION

### 11.1. Information on 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: no data mg/l. Ingredients of unknown toxicity: < 1 %. 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 : Slight irritation possible. Not classified - based on available data, the classification criteria are not met.
- Sensitisation : May produce an allergic reaction.
- Mutagenicity : Does not contain mutagenic substances. Not classified - based on available data, the classification criteria are not met.



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## 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 : 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            |
|---|------------------------------|------------------------|-------------------|------------------------|
| 3-p-Cumenyl-2-methylpropionaldehyde                                     | Skin sensitisation           | 5575 ug/cm2            | OECD 429          | Mouse                  |
|   | NOAEL (oral)                 | 300 mg/kg bw/d         |                   | Rabbit                 |
|   | Skin irritation              | Slightly irritant      |                   | Rabbit                 |
|   | LD50 (oral)                  | 3810 mg/kg bw          | -----             | Rat                    |
|   | NOAEL (fertility, oral)      | 25 mg/kg bw/d          | OECD 415          | Rat                    |
|   | Mutagenicity                 | Negative               | OECD 471          | Salmonella typhimurium |
|   | Genotoxicity - estimate      | > 2000 mg/kg bw/d      | Read across       | Mouse                  |
|   | Eye irritation               | Non-irritant           |                   | Rabbit                 |
|   | LD50 (dermal)                | > 5000 mg/kg bw        | -----             | Rat                    |
|   | Pentadecan-15-olide          | Genotoxicity - in vivo | > 1600 mg/kg bw/d |                        |
| LD50 (oral)   |                              | > 5000 mg/kg bw        | -----             | Rat                    |
| LD50 (dermal)   |                              | > 5000 mg/kg bw        | -----             | Rabbit                 |
| Skin irritation   |                              | Slightly irritant      | OECD 404          | Rabbit                 |
| Skin irritation   |                              | Non-irritant           | Patch test        | Human                  |
| NOAEL (fertility) - estimate  |                              | > 1000 mg/kg.d         | Read across       | Rat                    |
| NOAEL (development) - estimate  |                              | > 1000 mg/kg.d         | Read across       | Rat                    |
| NOAEL (oral) - estimate   |                              | > 1000 mg/kg bw/d      | Read across       | Rat                    |
| Mutagenicity  |                              | Negative               | OECD 471          | Salmonella typhimurium |
| Genotoxicity - estimate   |                              | Not genotoxic          |                   |                        |
| 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one | Skin sensitisation           | 5450 ug/cm2            | OECD 429          | Mouse                  |
|   | Skin irritation              | Non-irritant           | -----             | Rabbit                 |
| d-Limonene  | 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                    |
|   | Genotoxicity - in vivo       | > 2000 mg/kg bw/d      |                   | Rat                    |
| d-Limonene  | NOEL (carcinogenicity, oral) | > 300 mg/kg bw/d       | OECD 451          | Rat                    |
|   | Eye irritation               | Non-irritant           | OECD 405          | Rabbit                 |
|   | Mutagenicity                 | Negative               | OECD 471          |                        |





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|                                |                                |                          |             |                        |
|--------------------------------|--------------------------------|--------------------------|-------------|------------------------|
| 4-tert-Butylcyclohexyl acetate | Skin sensitisation             | 10075 ug/cm <sup>2</sup> | OECD 429    | Mouse                  |
|                                | NOAEL (development, oral)      | 600 mg/kg bw/d           |             | Rat                    |
|                                | Skin irritation                | Irritant                 | ----        | ----                   |
|                                | LD50 (dermal)                  | > 2000 mg/kg bw          | ----        | Rabbit                 |
|                                | LD50 (oral)                    | 4400 mg/kg bw            | ----        | Rat                    |
|                                | Genotoxicity - in vitro        | Not genotoxic            |             |                        |
|                                | NOAEL (oral)                   | 150 mg/kg bw/d           |             | Rat                    |
|                                | LD50 (oral)                    | 5000 mg/kg bw            | ----        | Rat                    |
|                                | LD50 (dermal)                  | > 5000 mg/kg bw          |             | Rabbit                 |
|                                | Eye irritation                 | Non-irritant             |             | Rabbit                 |
| Benzyl salicylate              | Skin irritation                | Non-irritant             |             | Rabbit                 |
|                                | NOAEL (oral) - estimate        | 710 mg/kg bw/d           | Read across |                        |
|                                | LD50 (oral)                    | 2227 mg/kg bw            | ----        | Rat                    |
|                                | Skin sensitisation             | 725 ug/cm <sup>2</sup>   | OECD 429    | Mouse                  |
|                                | Skin irritation                | Non-irritant             | ----        | Rabbit                 |
|                                | NOAEL (oral) - estimate        | > 360 mg/kg bw/d         | Read across | Rat                    |
|                                | Mutagenicity                   | Negative                 | OECD 471    | Salmonella typhimurium |
|                                | NOAEL (fertility) - estimate   | 180 mg/kg.d              | Read across | Rat                    |
|                                | NOAEL (development) - estimate | > 360 mg/kg.d            | Read across | Rat                    |
|                                | Eye irritation                 | Moderately irritant      | ----        | Rabbit                 |
| Linalool                       | NOAEL (development, oral)      | 365 mg/kg bw/d           | ----        | Rat                    |
|                                | Eye irritation                 | Non-irritant             | OECD 405    | Rabbit                 |
|                                | Skin sensitisation             | 12650 ug/cm <sup>2</sup> | 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         |                        |

## 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): 57 mg/l. Calculated EC50 (waterflea): 32 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



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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. Other adverse effects

Other information : 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-naphthyl)ethan-1-one | EC50 (waterflea)                    | 1,38 mg/l    | OECD 202   | ----                           |
|   | IC50 (alga)                         | > 2,6 mg/l   | OECD 201   | ----                           |
|   | LC50 (fish)                         | 1,3 mg/l     | OECD 203   | ----                           |
| 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one | Log P(ow)                           | 5,23         |            |                                |
| 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one | BCF                                 | 600          |            |                                |
| 1,3,4,6,7,8-Hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran          | Ultimate aerobic biodegradation (%) | 2 %          | OECD 301 B |                                |
|   | IC50 (alga)                         | > 0,85 mg/l  | OECD 201   | Pseudokirchnerella subcapitata |
| 1,3,4,6,7,8-Hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran          | NOEC (waterflea) - chronic          | 0,111 mg/l.d | OECD 202   | Daphnia magna                  |
|   | 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-hexamethylindeno[5,6-c]pyran          | Log P(ow)                           | 5,9          |            |                                |
|   | BCF                                 | 1584         |            |                                |
| d-Limonene  | LC50 (fish)                         | 0,720 mg/l   | OECD 203   | Pimephales promelas            |
|   | EC50 (waterflea)                    | 0,36 mg/l    | OECD 202   | Daphnia magna                  |
|   | Ultimate aerobic biodegradation (%) | > 92 %       |            |                                |
|   | NOEC (waterflea) - chronic          | 0,15 mg/l.d  |            | Daphnia magna                  |
| d-Limonene  | Log P(ow)                           | 4,38         |            |                                |

## SECTION 13 DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

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

Additional warning : None.

Waste water discharge : Do not dispose into the environment, in drains or in water courses.

European waste catalogue : Dispose hazardous waste in accordance with Directive 91/689/EEC under acknowledgement of a waste code according to Commission Decision 2000/532/EC to an official chemical waste depot.

Local legislation : Disposal should be in accordance with applicable regional, national, and local laws and regulations. Local regulations may be more stringent than regional or national requirements and must be complied with.

## SECTION 14 TRANSPORT INFORMATION

Product name : Shell Air Freshener New Car

Date of issue : 2018-07-24

Replaces issue dated : ---

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## 14.1. UN number or ID number

UN nr. : None.

## 14.2. UN proper shipping name

Transport name : Not regulated.

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

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

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

IMDG (sea)

Class : This product is not classified according to IMDG.

Marine pollutant : No

IATA (air)

Class : This product is not classified according to IATA.

## 14.6. Special precautions for user

Other information : Country specific variations may apply.

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

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

## SECTION 15 REGULATORY INFORMATION

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

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

### 15.2. Chemical safety assessment

Chemical safety assessment : Not applicable.

## SECTION 16 OTHER INFORMATION

### 16.1. Other information

The information in this safety data sheet is compiled in compliance with Regulation (EU) No 2015/830 dated 28 May 2015 and accurate to the best of our knowledge and experience at the date of issue specified. It is the user's obligation to use this product safely and to comply with all applicable laws and regulations concerning the use of the product. This safety data sheet complements the technical information sheets but does not replace them and offers no warranty with regard to product properties.

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

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

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

ADR : European Agreement concerning the International Carriage of Dangerous Goods by Road  
ATE : Acute Toxicity Estimate  
CLP : Classification, Labeling & Packaging



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

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

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 Irrit. 2       | : Eye irritation, category 2.                                |
| Skin Sens. 1/1A/1B | : Skin sensitization, category 1/1A/1B.                      |
| Asp. Tox. 1        | : Aspiration hazard, category 1.                             |
| Aquatic Chronic 1  | : Hazardous to the aquatic environment — Chronic category 1. |
| Aquatic Chronic 2  | : Hazardous to the aquatic environment — Chronic category 2. |
| Aquatic Chronic 3  | : Hazardous to the aquatic environment — Chronic category 3. |
| Aquatic Acute 1    | : Hazardous to the aquatic environment — Acute category 1.   |

Full text of H-phrases mentioned in section 3:

|      |   |
|------|---|
| H226 | Flammable liquid and vapour.                          |
| H304 | May be fatal if swallowed and enters airways.         |
| H315 | Causes skin irritation.                               |
| H317 | May cause an allergic skin reaction.                  |
| H319 | Causes serious eye irritation.                        |
| H400 | Very toxic to aquatic life.                           |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H411 | Toxic to aquatic life with long lasting effects.      |
| H412 | Harmful to aquatic life with long lasting effects.    |

Number format : ", " used as decimal separator.

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End of safety data sheet.

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