

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

|                 |                          |
|-----------------|--------------------------|
| Product form    | : Mixture                |
| Product name    | : Juicy Orange #EU22822F |
| UFI             | : PD61-7236-R00Q-AX29    |
| Product code    | : EU22822F               |
| Type of product | : Perfumes, fragrances   |
| Product group   | : Trade product          |

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

##### 1.2.1. Relevant identified uses

|                                  |   |
|----------------------------------|---|
| Main use category                | : Industrial use, Professional use        |
| Industrial/Professional use spec | : For professional use only<br>Industrial |
| Use of the substance/mixture     | : Perfumes, fragrances                    |
| Function or use category         | : Odour agents                            |

##### 1.2.2. Uses advised against

No additional information available

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

FRENCH COLOR & FRAGRANCE International GmbH  
Mittlerer Weg 35  
DE- 79424 Auggen  
Germany  
T 49-7631-931-8900  
[SDS@frenchcolor.com](mailto:SDS@frenchcolor.com) - [www.frenchcolor.com](http://www.frenchcolor.com)

#### 1.4. Emergency telephone number

|                  |  |
|------------------|--|
| Emergency number | : 1-800-255-3924; +01-813-248-0585; China:+400-120-0751; Mexico:+01-800-099-0731;<br>Brazil: +0-800-591-6042; India: +000-800-100-4086 |
|------------------|--|

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification according to Regulation (EC) No. 1272/2008 [CLP]

|   |      |
|---|------|
| Skin corrosion/irritation, Category 2                             | H315 |
| Serious eye damage/eye irritation, Category 2                     | H319 |
| Skin sensitisation, Category 1                                    | H317 |
| Reproductive toxicity, Category 1A                                | H360 |
| Hazardous to the aquatic environment – Chronic Hazard, Category 3 | H412 |
| Full text of H- and EUH-statements: see section 16                |      |

##### Adverse physicochemical, human health and environmental effects

Causes serious eye damage. May damage fertility or the unborn child. Causes skin irritation. Causes serious eye irritation. Harmful to aquatic life with long lasting effects. May cause an allergic skin reaction.

#### 2.2. Label elements

##### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



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|                                |  |
|--------------------------------|--|
| Signal word (CLP)              | : Danger   |
| Contains                       | : Orange oil ; Linalool; Neryl acetate; Aldehyde C-12; Lime oil distilled ; Geraniol; Nerol; Citronellol Pure  |
| Hazard statements (CLP)        | : H315 - Causes skin irritation.<br>H317 - May cause an allergic skin reaction.<br>H319 - Causes serious eye irritation.<br>H360 - May damage fertility or the unborn child.<br>H412 - Harmful to aquatic life with long lasting effects.  |
| Precautionary statements (CLP) | : P201 - Obtain special instructions before use.<br>P202 - Do not handle until all safety precautions have been read and understood.<br>P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.<br>P264 - Wash hands, forearms and face thoroughly after handling.<br>P272 - Contaminated work clothing should not be allowed out of the workplace.<br>P273 - Avoid release to the environment. |
| Extra phrases                  | : For professional users only.   |

### 2.3. Other hazards

Contains no PBT/vPvB substances  $\geq 0.1\%$  assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

| Name          | Product identifier   | %            | Classification according to Regulation (EC) No. 1272/2008 [CLP]  |
|---------------|--|--------------|--|
| Orange oil    | CAS-No.: 8008-57-9<br>EC-No.: 232-433-8<br>REACH-no: 01-2119493353-35                              | 3.5 – 7      | Flam. Liq. 3, H226<br>Skin Irrit. 2, H315<br>Skin Sens. 1, H317<br>Asp. Tox. 1, H304<br>Aquatic Acute 1, H400<br>Aquatic Chronic 2, H411 |
| Linalool      | CAS-No.: 78-70-6<br>EC-No.: 201-134-4<br>EC Index-No.: 603-235-00-2<br>REACH-no: 01-2119474016-42  | 2.625 – 5.25 | Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Skin Sens. 1B, H317   |
| Neryl acetate | CAS-No.: 141-12-8<br>EC-No.: 205-459-2   | 2.25 – 4.5   | Skin Sens. 1B, H317  |
| Geraniol      | CAS-No.: 106-24-1<br>EC-No.: 203-377-1<br>EC Index-No.: 603-241-00-5<br>REACH-no: 01-2119552430-49 | 0.75 – 2.1   | Skin Irrit. 2, H315<br>Eye Dam. 1, H318<br>Skin Sens. 1, H317  |
| Aldehyde C-8  | CAS-No.: 124-13-0<br>EC-No.: 204-683-8   | 0.75 – 1.5   | Flam. Liq. 3, H226<br>Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Aquatic Chronic 3, H412   |
| Terpineol     | CAS-No.: 8000-41-7<br>EC-No.: 232-268-1  | 0.75 – 1.5   | Skin Irrit. 2, H315<br>Eye Irrit. 2, H319  |

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| Name   | Product identifier  | %            | Classification according to Regulation (EC) No. 1272/2008 [CLP]   |
|--|---|--------------|---|
| Nerol  | CAS-No.: 106-25-2<br>EC-No.: 203-378-7  | 0.45 – 1.5   | Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Skin Sens. 1, H317   |
| Aldehyde C-12  | CAS-No.: 112-54-9<br>EC-No.: 203-983-6  | 0.5 – 1      | Eye Irrit. 2, H319<br>Skin Irrit. 2, H315<br>Skin Sens. 1B, H317  |
| Aldehyde C-10  | CAS-No.: 112-31-2<br>EC-No.: 203-957-4  | 0.5 – 1      | Eye Irrit. 2, H319<br>Aquatic Chronic 3, H412   |
| Lime oil distilled   | CAS-No.: 8008-26-2<br>EC-No.: 290-010-3<br>REACH-no: 01-2120138646-51                               | 0.2 – 0.4    | Flam. Liq. 3, H226<br>Skin Irrit. 2, H315<br>Skin Sens. 1, H317<br>Repr. 1A, H360FD<br>Asp. Tox. 1, H304<br>Aquatic Chronic 1, H410 |
| Alcohol C-8<br>substance with national workplace exposure limit(s)<br>(BG, DE, LT, LV, RO, SI, CH) | CAS-No.: 111-87-5<br>EC-No.: 203-917-6  | 0.15 – 0.3   | Eye Irrit. 2, H319<br>Aquatic Chronic 3, H412   |
| Citronellol Pure   | CAS-No.: 106-22-9<br>EC-No.: 203-375-0<br>REACH-no: 01-2119453995-23                                | 0.045 – 0.15 | Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Skin Sens. 1B, H317  |
| Aldehyde C-6<br>substance with national workplace exposure limit(s)<br>(FI, PL)                    | CAS-No.: 66-25-1<br>EC-No.: 200-624-5   | 0.05 – 0.1   | Flam. Liq. 3, H226  |
| Citral<br>substance with national workplace exposure limit(s)<br>(BE, ES, IE, PL, PT)              | CAS-No.: 5392-40-5<br>EC-No.: 226-394-6<br>EC Index-No.: 605-019-00-3<br>REACH-no: 01-2119462829-23 | 0.015 – 0.09 | Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Skin Sens. 1, H317   |

Full text of H- and EUH-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

|                                       |   |
|---------------------------------------|---|
| First-aid measures general            | : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). IF exposed or concerned: Get medical advice/attention.  |
| First-aid measures after inhalation   | : Remove person to fresh air and keep comfortable for breathing. Allow affected person to breathe fresh air. Allow the victim to rest.  |
| First-aid measures after skin contact | : Wash with plenty of water/.... If skin irritation or rash occurs: Get medical advice/attention. Specific treatment (see supplemental first aid instruction on this label). Wash contaminated clothing before reuse. Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. If skin irritation occurs: Get medical advice/attention. Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention. |
| First-aid measures after eye contact  | : If eye irritation persists: Get medical advice/attention. Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists. Call a physician immediately. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  |
| First-aid measures after ingestion    | : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Call a poison center or a doctor if you feel unwell.   |

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### 4.2. Most important symptoms and effects, both acute and delayed

|                                     |  |
|-------------------------------------|--|
| Symptoms/effects                    | : Not expected to present a significant hazard under anticipated conditions of normal use. |
| Symptoms/effects after inhalation   | : May cause an allergic skin reaction.   |
| Symptoms/effects after skin contact | : Irritation. May cause an allergic skin reaction.   |
| Symptoms/effects after eye contact  | : Causes serious eye irritation. Serious damage to eyes. Eye irritation.                   |

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

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

|                                |  |
|--------------------------------|--|
| Suitable extinguishing media   | : Sand. Water spray. Dry powder. Foam. Carbon dioxide. |
| Unsuitable extinguishing media | : Do not use a heavy water stream.                     |

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

|  |  |
|--|--|
| Fire hazard                                      | : Combustible liquid.                              |
| Explosion hazard                                 | : May form flammable/explosive vapour-air mixture. |
| Hazardous decomposition products in case of fire | : Toxic fumes may be released.                     |

### 5.3. Advice for firefighters

|                                |  |
|--------------------------------|--|
| Firefighting instructions      | : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.  |
| Protection during firefighting | : Do not enter fire area without proper protective equipment, including respiratory protection. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. |

## SECTION 6: Accidental release measures

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

|                  |   |
|------------------|---|
| General measures | : Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking. |
|------------------|---|

#### 6.1.1. For non-emergency personnel

|                      |  |
|----------------------|--|
| Emergency procedures | : Ventilate spillage area. Evacuate unnecessary personnel. Avoid contact with skin and eyes. Only qualified personnel equipped with suitable protective equipment may intervene. Avoid breathing dust/fume/gas/mist/vapours/spray. |
|----------------------|--|

#### 6.1.2. For emergency responders

|                      |  |
|----------------------|--|
| Protective equipment | : Do not attempt to take action without suitable protective equipment. Equip cleanup crew with proper protection. For further information refer to section 8: "Exposure controls/personal protection". |
| Emergency procedures | : Ventilate area.  |

### 6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Notify authorities if product enters sewers or public waters.

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

|                         |  |
|-------------------------|--|
| Methods for cleaning up | : Take up liquid spill into absorbent material. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials. Notify authorities if product enters sewers or public waters. |
| Other information       | : Dispose of materials or solid residues at an authorized site.  |

### 6.4. Reference to other sections

See Section 8. Exposure controls and personal protection. For further information refer to section 13.

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### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

|                                   |   |
|-----------------------------------|---|
| Additional hazards when processed | : Handle empty containers with care because residual vapours are flammable. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  |
| Precautions for safe handling     | : Ensure good ventilation of the work station. No open flames. No smoking. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear personal protective equipment. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray. |
| Hygiene measures                  | : Wash hands thoroughly after handling. Separate working clothes from town clothes. Launder separately. Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.   |

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

|                            |   |
|----------------------------|---|
| Technical measures         | : Proper grounding procedures to avoid static electricity should be followed.   |
| Storage conditions         | : Keep in fireproof place. Keep only in the original container in a cool, well ventilated place away from : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container closed when not in use. Store locked up. Store in a well-ventilated place. Keep cool. |
| Incompatible products      | : Strong bases. Strong acids.   |
| Incompatible materials     | : Heat sources. Sources of ignition. Direct sunlight.   |
| Storage temperature        | : 25 °C   |
| Storage area               | : Store in a well-ventilated place. Store away from heat.   |
| Special rules on packaging | : Store in a closed container.  |
| Packaging materials        | : Do not store in corrodable metal.   |

#### 7.3. Specific end use(s)

No additional information available

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### 8.1.1 National occupational exposure and biological limit values

| Alcohol C-8 (111-87-5)                                   |   |
|--|---|
| <b>Bulgaria - Occupational Exposure Limits</b>           |   |
| OEL TWA  | 10 mg/m <sup>3</sup>  |
| <b>Germany - Occupational Exposure Limits (TRGS 900)</b> |   |
| AGW (OEL TWA) [1]  | 54 mg/m <sup>3</sup> (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed (long-chain Alcohols)) |
| AGW (OEL TWA) [2]  | 10 ppm (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed (long-chain Alcohols))               |
| <b>Latvia - Occupational Exposure Limits</b>             |   |
| OEL TWA  | 10 mg/m <sup>3</sup> (Octanol)  |
| <b>Lithuania - Occupational Exposure Limits</b>          |   |
| IPRV (OEL TWA)   | 10 mg/m <sup>3</sup>  |
| <b>Romania - Occupational Exposure Limits</b>            |   |
| OEL TWA  | 150 mg/m <sup>3</sup>   |
| OEL TWA [ppm]  | 28 ppm  |

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| <b>Alcohol C-8 (111-87-5)</b>                     |  |
|---|--|
| OEL STEL  | 250 mg/m <sup>3</sup>  |
| OEL STEL [ppm]                                    | 47 ppm   |
| OEL chemical category                             | Skin notation  |
| <b>Slovenia - Occupational Exposure Limits</b>    |  |
| OEL TWA   | 106 mg/m <sup>3</sup>  |
| OEL TWA [ppm]                                     | 20 ppm   |
| OEL STEL  | 106 mg/m <sup>3</sup>  |
| OEL STEL [ppm]                                    | 20 ppm   |
| <b>Switzerland - Occupational Exposure Limits</b> |  |
| MAK (OEL TWA) [1]                                 | 106 mg/m <sup>3</sup>  |
| MAK (OEL TWA) [2]                                 | 20 ppm   |
| KZGW (OEL STEL)                                   | 106 mg/m <sup>3</sup>  |
| KZGW (OEL STEL) [ppm]                             | 20 ppm   |
| <b>Aldehyde C-6 (66-25-1)</b>                     |  |
| <b>Finland - Occupational Exposure Limits</b>     |  |
| HTP (OEL STEL)                                    | 42 mg/m <sup>3</sup>   |
| HTP (OEL STEL) [ppm]                              | 10 ppm   |
| <b>Poland - Occupational Exposure Limits</b>      |  |
| NDS (OEL TWA)                                     | 40 mg/m <sup>3</sup>   |
| NDSCh (OEL STEL)                                  | 80 mg/m <sup>3</sup>   |
| <b>Citral (5392-40-5)</b>                         |  |
| <b>Belgium - Occupational Exposure Limits</b>     |  |
| OEL TWA   | 32 mg/m <sup>3</sup> (vapor and aerosol)   |
| OEL TWA [ppm]                                     | 5 ppm (vapor and aerosol)  |
| OEL chemical category                             | Skin   |
| <b>Ireland - Occupational Exposure Limits</b>     |  |
| OEL TWA [2]                                       | 5 ppm  |
| OEL STEL [ppm]                                    | 15 ppm (calculated)  |
| <b>Poland - Occupational Exposure Limits</b>      |  |
| NDS (OEL TWA)                                     | 27 mg/m <sup>3</sup>   |
| NDSCh (OEL STEL)                                  | 54 mg/m <sup>3</sup>   |
| <b>Portugal - Occupational Exposure Limits</b>    |  |
| OEL TWA [ppm]                                     | 5 ppm  |
| OEL chemical category                             | Sensitizer, A4 - Not Classifiable as a Human Carcinogen, skin - potential for cutaneous exposure |
| <b>Spain - Occupational Exposure Limits</b>       |  |
| VLA-ED (OEL TWA) [2]                              | 5 ppm (inhalable fraction and vapor)   |
| OEL chemical category                             | Sensitizer, skin - potential for cutaneous absorption  |

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### Citral (5392-40-5)

#### USA - ACGIH - Occupational Exposure Limits

|                         |   |
|-------------------------|---|
| ACGIH OEL TWA [ppm]     | 5 ppm (inhalable fraction and vapor)  |
| ACGIH chemical category | Not Classifiable as a Human Carcinogen, Skin - potential significant contribution to overall exposure by the cutaneous route, dermal sensitizer |

#### 8.1.2. Recommended monitoring procedures

No additional information available

#### 8.1.3. Air contaminants formed

No additional information available

#### 8.1.4. DNEL and PNEC

No additional information available

#### 8.1.5. Control banding

No additional information available

### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

##### Appropriate engineering controls:

Ensure good ventilation of the work station.

#### 8.2.2. Personal protection equipment

##### Personal protective equipment:

Avoid all unnecessary exposure.

##### Personal protective equipment symbol(s):



#### 8.2.2.1. Eye and face protection

##### Eye protection:

Chemical goggles or safety glasses. Safety glasses

#### 8.2.2.2. Skin protection

##### Skin and body protection:

Wear suitable protective clothing

##### Hand protection:

Wear protective gloves.

#### 8.2.2.3. Respiratory protection

##### Respiratory protection:

Wear appropriate mask. [In case of inadequate ventilation] wear respiratory protection.

#### 8.2.2.4. Thermal hazards

No additional information available

#### 8.2.3. Environmental exposure controls

##### Environmental exposure controls:

Avoid release to the environment.

##### Other information:

Do not eat, drink or smoke during use.

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### SECTION 9: Physical and chemical properties

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

|   |  |
|---|--|
| Physical state                                  | : Liquid                                     |
| Colour  | : light yellow. amber. Conforms to standard. |
| Odour   | : characteristic.                            |
| Odour threshold                                 | : Not available                              |
| Melting point                                   | : Not applicable                             |
| Freezing point                                  | : Not available                              |
| Boiling point                                   | : Not available                              |
| Flammability                                    | : Not applicable                             |
| Explosive limits                                | : Not available                              |
| Lower explosion limit                           | : Not available                              |
| Upper explosion limit                           | : Not available                              |
| Flash point                                     | : 70 °C (closed cup) ASTM D7094              |
| Auto-ignition temperature                       | : Not available                              |
| Decomposition temperature                       | : Not available                              |
| pH  | : Not available                              |
| Viscosity, kinematic                            | : Not available                              |
| Solubility                                      | : Not available                              |
| Partition coefficient n-octanol/water (Log Kow) | : Not available                              |
| Vapour pressure                                 | : Not available                              |
| Vapour pressure at 50°C                         | : Not available                              |
| Density   | : Not available                              |
| Relative density                                | : ≈ 0.92                                     |
| Relative vapour density at 20°C                 | : Not available                              |
| Particle characteristics                        | : Not applicable                             |

#### 9.2. Other information

##### 9.2.1. Information with regard to physical hazard classes

No additional information available

##### 9.2.2. Other safety characteristics

No additional information available

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

#### 10.2. Chemical stability

Combustible liquid. May form flammable/explosive vapour-air mixture. Not established.

#### 10.3. Possibility of hazardous reactions

Not established.

#### 10.4. Conditions to avoid

Open flame. Overheating. Direct sunlight. Heat. Sparks. Extremely high or low temperatures.

#### 10.5. Incompatible materials

Strong acids. Strong bases.

#### 10.6. Hazardous decomposition products

May release flammable gases. fume. Carbon monoxide. Carbon dioxide.



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### SECTION 11: Toxicological information

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

Acute toxicity (oral) : Not classified  
Acute toxicity (dermal) : Not classified  
Acute toxicity (inhalation) : Not classified

| <b>Orange oil (8008-57-9)</b>         |                       |
|---------------------------------------|-----------------------|
| LD50 oral rat                         | 4400 mg/kg            |
| LD50 dermal rabbit                    | > 5000 mg/kg          |
| <b>Linalool (78-70-6)</b>             |                       |
| LD50 oral                             | 2790 mg/kg bodyweight |
| <b>Neryl acetate (141-12-8)</b>       |                       |
| LD50 oral rat                         | > 5 g/kg              |
| LD50 dermal rabbit                    | > 6 ml/kg             |
| <b>Aldehyde C-8 (124-13-0)</b>        |                       |
| LD50 oral rat                         | 4616 mg/kg            |
| LD50 dermal rabbit                    | 5207 mg/kg            |
| LC50 Inhalation - Rat                 | > 4.7 mg/l/4h         |
| <b>Terpineol (8000-41-7)</b>          |                       |
| LD50 oral rat                         | 2900 mg/kg            |
| LD50 oral                             | 4300 mg/kg bodyweight |
| LD50 dermal rabbit                    | > 3000 mg/kg          |
| <b>Aldehyde C-12 (112-54-9)</b>       |                       |
| LD50 oral rat                         | 23 g/kg               |
| LD50 dermal rabbit                    | > 2000 mg/kg          |
| <b>Aldehyde C-10 (112-31-2)</b>       |                       |
| LD50 oral rat                         | 3730 mg/kg            |
| LD50 dermal rabbit                    | 5040 mg/kg            |
| <b>Lime oil distilled (8008-26-2)</b> |                       |
| LD50 oral rat                         | 5600 mg/kg            |
| LD50 dermal rabbit                    | > 5000 mg/kg          |
| <b>Alcohol C-8 (111-87-5)</b>         |                       |
| LD50 oral rat                         | > 3200 mg/kg          |
| LD50 dermal rabbit                    | > 5 g/kg              |
| LD50 dermal                           | 2500 mg/kg bodyweight |
| <b>Aldehyde C-6 (66-25-1)</b>         |                       |
| LD50 oral rat                         | 4890 mg/kg            |
| LD50 dermal rabbit                    | > 8100 mg/kg          |

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| Geraniol (106-24-1) |                       |
|---------------------|-----------------------|
| LD50 oral rat       | 3600 mg/kg            |
| LD50 oral           | 3600 mg/kg bodyweight |
| LD50 dermal rabbit  | > 5 g/kg              |

| Nerol (106-25-2)   |                       |
|--------------------|-----------------------|
| LD50 oral rat      | 4500 mg/kg            |
| LD50 oral          | 4500 mg/kg bodyweight |
| LD50 dermal rabbit | > 5 g/kg              |

| Citral (5392-40-5) |            |
|--------------------|------------|
| LD50 oral rat      | 4960 mg/kg |
| LD50 dermal rabbit | 2250 mg/kg |

| Citronellol Pure (106-22-9) |                       |
|-----------------------------|-----------------------|
| LD50 oral rat               | 3450 mg/kg            |
| LD50 oral                   | 3450 mg/kg bodyweight |
| LD50 dermal rabbit          | 2650 mg/kg            |
| LD50 dermal                 | 2650 mg/kg bodyweight |

|                                   |  |
|-----------------------------------|--|
| Skin corrosion/irritation         | : Causes skin irritation.  |
| Serious eye damage/irritation     | : Causes serious eye irritation.                                   |
| Respiratory or skin sensitisation | : May cause an allergic skin reaction.                             |
| Germ cell mutagenicity            | : Not classified   |
| Additional information            | : Based on available data, the classification criteria are not met |
| Carcinogenicity                   | : Not classified   |
| Additional information            | : Based on available data, the classification criteria are not met |
| Reproductive toxicity             | : May damage fertility or the unborn child.                        |
| Additional information            | : Based on available data, the classification criteria are not met |
| STOT-single exposure              | : Not classified   |
| Additional information            | : Based on available data, the classification criteria are not met |
| STOT-repeated exposure            | : Not classified   |
| Additional information            | : Based on available data, the classification criteria are not met |
| Aspiration hazard                 | : Not classified   |
| Additional information            | : Based on available data, the classification criteria are not met |

| Orange oil (8008-57-9) |     |
|------------------------|-----|
| Hydrocarbon            | Yes |

### 11.2. Information on other hazards

#### 11.2.1. Endocrine disrupting properties

No additional information available

#### 11.2.2. Other information

Potential adverse human health effects and symptoms : Based on available data, the classification criteria are not met

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : Harmful to aquatic life with long lasting effects.  
Ecology - water : Harmful to aquatic life with long lasting effects.

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Hazardous to the aquatic environment, short-term (acute) : Not classified

Hazardous to the aquatic environment, long-term (chronic) : Harmful to aquatic life with long lasting effects.

| Linalool (78-70-6)       |   |
|--------------------------|---|
| EC50 96h - Algae [1]     | 88.3 mg/l (Species: <i>Desmodesmus subspicatus</i> )  |
| Aldehyde C-10 (112-31-2) |   |
| LC50 - Fish [1]          | 1.45 mg/l (Exposure time: 96 h - Species: <i>Oncorhynchus mykiss</i> [semi-static])         |
| Alcohol C-8 (111-87-5)   |   |
| LC50 - Fish [1]          | 11.4 – 12.9 mg/l (Exposure time: 96 h - Species: <i>Pimephales promelas</i> [flow-through]) |
| LC50 - Fish [2]          | 17.68 mg/l (Exposure time: 96 h - Species: <i>Oncorhynchus mykiss</i> [static])             |
| Aldehyde C-6 (66-25-1)   |   |
| LC50 - Fish [1]          | 12 – 16.5 mg/l (Exposure time: 96 h - Species: <i>Pimephales promelas</i> [flow-through])   |
| Geraniol (106-24-1)      |   |
| LC50 - Fish [1]          | 22 mg/l (Exposure time: 96 h - Species: <i>Danio rerio</i> [static])                        |
| Nerol (106-25-2)         |   |
| LC50 - Fish [1]          | 20.3 mg/l (Exposure time: 96 h - Species: <i>Danio rerio</i> [semi-static])                 |
| Citral (5392-40-5)       |   |
| EC50 - Crustacea [1]     | 7 mg/l (Exposure time: 48 h - Species: <i>Daphnia magna</i> )                               |
| EC50 72h - Algae [1]     | 16 mg/l (Species: <i>Desmodesmus subspicatus</i> )  |
| EC50 96h - Algae [1]     | 19 mg/l (Species: <i>Desmodesmus subspicatus</i> )  |

### 12.2. Persistence and degradability

| Juicy Orange #EU22822F        |  |
|-------------------------------|--|
| Persistence and degradability | May cause long-term adverse effects in the environment. Not established. |

### 12.3. Bioaccumulative potential

| Juicy Orange #EU22822F                          |                             |
|---|-----------------------------|
| Bioaccumulative potential                       | Not established.            |
| Neryl acetate (141-12-8)                        |                             |
| Partition coefficient n-octanol/water (Log Pow) | 3.98 (at 37 °C (at pH 7.2)) |
| Aldehyde C-8 (124-13-0)                         |                             |
| Partition coefficient n-octanol/water (Log Pow) | 3.5 (at 25 °C)              |
| Aldehyde C-12 (112-54-9)                        |                             |
| Partition coefficient n-octanol/water (Log Pow) | 4.9 (at 35 °C)              |
| Aldehyde C-10 (112-31-2)                        |                             |
| Partition coefficient n-octanol/water (Log Pow) | 3.8 (at 35 °C)              |
| Alcohol C-8 (111-87-5)                          |                             |
| Partition coefficient n-octanol/water (Log Pow) | 3.5 (at 23 °C (at pH 5.7))  |

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| Aldehyde C-6 (66-25-1)                          |                             |
|---|-----------------------------|
| Partition coefficient n-octanol/water (Log Pow) | 2.3 (at 25 °C (at pH 5))    |
| Geraniol (106-24-1)                             |                             |
| Partition coefficient n-octanol/water (Log Pow) | 2.6 (at 25 °C)              |
| Nerol (106-25-2)                                |                             |
| Partition coefficient n-octanol/water (Log Pow) | 2.76 (at 30 °C (at pH 6.5)) |
| Citral (5392-40-5)                              |                             |
| Partition coefficient n-octanol/water (Log Pow) | 2.76 (at 25 °C)             |
| Citronellol Pure (106-22-9)                     |                             |
| Partition coefficient n-octanol/water (Log Pow) | 3.41 (at 25 °C)             |

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Endocrine disrupting properties

No additional information available

### 12.7. Other adverse effects

Additional information : Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

|  |   |
|--|---|
| Waste treatment methods                    | : Dispose of contents/container in accordance with licensed collector's sorting instructions.   |
| Product/Packaging disposal recommendations | : Dispose of contents/container in accordance with local/national laws and regulations.<br>Dispose in a safe manner in accordance with local/national regulations.  |
| Additional information                     | : Handle empty containers with care because residual vapours are flammable.   |
| Ecology - waste materials                  | : Avoid release to the environment.   |
| HP Code                                    | : HP3 - "Flammable:"<br>– flammable liquid waste: liquid waste having a flash point below 60 °C or waste gas oil, diesel and light heating oils having a flash point > 55 °C and ≤ 75 °C;<br>– flammable pyrophoric liquid and solid waste: solid or liquid waste which, even in small quantities, is liable to ignite within five minutes after coming into contact with air;<br>– flammable solid waste: solid waste which is readily combustible or may cause or contribute to fire through friction;<br>– flammable gaseous waste: gaseous waste which is flammable in air at 20 °C and a standard pressure of 101.3 kPa;<br>– water reactive waste: waste which, in contact with water, emits flammable gases in dangerous quantities;<br>– other flammable waste: flammable aerosols, flammable self-heating waste, flammable organic peroxides and flammable self-reactive waste.<br>HP4 - "Irritant – skin irritation and eye damage:" waste which on application can cause skin irritation or damage to the eye.<br>HP14 - "Ecotoxic:" waste which presents or may present immediate or delayed risks for one or more sectors of the environment |

## SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

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| ADR                                     | IMDG           | IATA           | ADN            | RID            |
|---|----------------|----------------|----------------|----------------|
| <b>14.1. UN number or ID number</b>     |                |                |                |                |
| Not applicable                          | Not applicable | Not applicable | Not applicable | Not applicable |
| <b>14.2. UN proper shipping name</b>    |                |                |                |                |
| Not applicable                          | Not applicable | Not applicable | Not applicable | Not applicable |
| <b>14.3. Transport hazard class(es)</b> |                |                |                |                |
| Not applicable                          | Not applicable | Not applicable | Not applicable | Not applicable |
| <b>14.4. Packing group</b>              |                |                |                |                |
| Not applicable                          | Not applicable | Not applicable | Not applicable | Not applicable |
| <b>14.5. Environmental hazards</b>      |                |                |                |                |
| Not applicable                          | Not applicable | Not applicable | Not applicable | Not applicable |
| No supplementary information available  |                |                |                |                |

### 14.6. Special precautions for user

#### Overland transport

Not applicable

#### Transport by sea

Not applicable

#### Air transport

Not applicable

#### Inland waterway transport

Not applicable

#### Rail transport

Not applicable

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

Not applicable

## SECTION 15: Regulatory information

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

#### 15.1.1. EU-Regulations

##### REACH Annex XVII (Restriction List)

| EU restriction list (REACH Annex XVII) |   |  |
|--|---|--|
| Reference code                         | Applicable on   | Entry title or description   |
| 3(a)                                   | Orange oil ; Aldehyde C-8 ; Lime oil distilled ; Aldehyde C-6 | Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F |

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| EU restriction list (REACH Annex XVII) |   |  |
|--|---|--|
| Reference code                         | Applicable on   | Entry title or description   |
| 3(b)                                   | Juicy Orange #EU22822F ; Orange oil ; Linalool ; Neryl acetate ; Aldehyde C-8 ; Terpineol ; Aldehyde C-12 ; Aldehyde C-10 ; Lime oil distilled ; Alcohol C-8 ; Geraniol ; Nerol ; Citral ; Citronellol Pure | Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10  |
| 3(c)                                   | Juicy Orange #EU22822F ; Orange oil ; Aldehyde C-8 ; Aldehyde C-10 ; Lime oil distilled ; Alcohol C-8   | Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1  |
| 40.                                    | Orange oil ; Aldehyde C-8 ; Lime oil distilled ; Aldehyde C-6   | Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or not. |

### REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

### REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

### PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

### POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

### Ozone Regulation (1005/2009)

Contains substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer):  
Tribromodifluoropropane (66-25-1)

### Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

### Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

### 15.1.2. National regulations

#### Germany

- Employment restrictions : Observe restrictions according Act on the Protection of Working Mothers (MuSchG).  
Observe restrictions according Act on the Protection of Young People in Employment (JArbSchG).
- Water hazard class (WGK) : WGK 3, Highly hazardous to water (Classification according to AwSV, Annex 1).
- Chemicals Prohibition Ordinance (ChemVerbotsV) : This product is subject to ChemVerbotsV Annex 2 Entry 1. The following requirements must be observed: authorization requirement (according to § 6 paragraph 1 sentence 1), basic requirements for carrying out the delivery (according to § 8 paragraph 1, 3 and 4), identification and documentation (according to § 9 paragraph 1 to 3) and exclusion of the shipping route (according to § 10).
- Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

#### Netherlands

- ABM category : A(2) - toxic for aquatic organisms, may have longterm hazardous effects in aquatic environment

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SZW-lijst van kankerverwekkende stoffen : Orange oil ,Terpineol are listed  
SZW-lijst van mutagene stoffen : Orange oil ,Terpineol are listed  
SZW-lijst van reprotoxische stoffen – Borstvoeding : None of the components are listed  
SZW-lijst van reprotoxische stoffen –  
Vruchtbaarheid : None of the components are listed  
SZW-lijst van reprotoxische stoffen – Ontwikkeling : None of the components are listed

### Denmark

Class for fire hazard : Class III-1  
Store unit : 50 liter  
Classification remarks : Flammable according to the Danish Ministry of Justice; Emergency management guidelines for the storage of flammable liquids must be followed  
Danish National Regulations : Young people below the age of 18 years are not allowed to use the product  
Pregnant/breastfeeding women working with the product must not be in direct contact with the product

## 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

Other information : None.

### Full text of H- and EUH-statements:

|                   |   |
|-------------------|---|
| Aquatic Acute 1   | Hazardous to the aquatic environment – Acute Hazard, Category 1   |
| Aquatic Chronic 1 | Hazardous to the aquatic environment – Chronic Hazard, Category 1 |
| Aquatic Chronic 2 | Hazardous to the aquatic environment – Chronic Hazard, Category 2 |
| Aquatic Chronic 3 | Hazardous to the aquatic environment – Chronic Hazard, Category 3 |
| Asp. Tox. 1       | Aspiration hazard, Category 1                                     |
| Eye Dam. 1        | Serious eye damage/eye irritation, Category 1                     |
| Eye Irrit. 2      | Serious eye damage/eye irritation, Category 2                     |
| Flam. Liq. 3      | Flammable liquids, Category 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.                                    |
| H360              | May damage fertility or the unborn child.                         |
| H360FD            | May damage fertility. May damage 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.                |
| Repr. 1A          | Reproductive toxicity, Category 1A                                |
| Skin Irrit. 2     | Skin corrosion/irritation, Category 2                             |
| Skin Sens. 1      | Skin sensitisation, Category 1                                    |

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### Full text of H- and EUH-statements:

|               |                                 |
|---------------|---------------------------------|
| Skin Sens. 1B | Skin sensitisation, category 1B |
|---------------|---------------------------------|

The classification complies with : ATP 12

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.