

**E702001 - Edge Wave 2.0
Apple - Green**

Printing: 04/08/2022

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Version: 2 (Replaced 1)

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

1.1 Product identifier: E702001 - Edge Wave 2.0
Apple - Green

Other means of identification:

Non-applicable

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

Relevant uses: Air freshener. For professional users only.

Uses advised against: All uses not specified in this section or in section 7.3

1.3 Details of the supplier of the safety data sheet:

Piazza BV
Vlimmersebaan 136 Unit 6
2275 Wechelderzande - Belgium
Phone: +32 3 366 25 45
sales@piazza.be
www.piazza.be

1.4 Emergency telephone number: +32 3 366 25 45 mo-fr 9h-15h30

SECTION 2: HAZARDS IDENTIFICATION **

2.1 Classification of the substance or mixture:

CLP Regulation (EC) No 1272/2008:

Classification of this product has been carried out in accordance with CLP Regulation (EC) No 1272/2008.

Aquatic Chronic 2: Hazardous to the aquatic environment, long-term hazard, Category 2, H411
Skin Sens. 1B: Sensitisation, skin, Category 1B, H317

2.2 Label elements:

CLP Regulation (EC) No 1272/2008:**Warning****Hazard statements:**

Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects.
Skin Sens. 1B: H317 - May cause an allergic skin reaction.

Precautionary statements:

P261: Avoid breathing dust/fume/gas/mist/vapours/spray.
P272: Contaminated work clothing should not be allowed out of the workplace.
P273: Avoid release to the environment.
P280: Wear protective gloves/protective clothing/eye protection/protective footwear.
P302+P352: IF ON SKIN: Wash with plenty of water.
P333+P313: If skin irritation or rash occurs: Get medical advice/attention.
P391: Collect spillage.
P501: Dispose of contents/container in accordance with regulations on hazardous waste or packaging and packaging waste respectively.

Supplementary information:

Contains d-limonene, Geraniol.

Substances that contribute to the classification

2,4-dimethylcyclohex-3-ene-1-carbaldehyde

2.3 Other hazards:

Product fails to meet PBT/vPvB criteria
Endocrine-disrupting properties: The product fails to meet the criteria.

** Changes with regards to the previous version

- CONTINUED ON NEXT PAGE -

E702001 - Edge Wave 2.0
Apple - Green

Printing: 04/08/2022

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Version: 2 (Replaced 1)

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS
3.1 Substance:

Non-applicable

3.2 Mixture:
Chemical description: Mixture of substances

Components:

In accordance with Annex II of Regulation (EC) No 1907/2006 (point 3), the product contains:

| Identification | Chemical name/Classification | Concentration |
|---|--|----------------|
| CAS: 104-67-6 EC: 203-225-4 Index: Non-applicable REACH: 01-2119959333-34-XXXX | Undecan-4-olide ⁽¹⁾ Self-classified Regulation 1272/2008 Aquatic Chronic 3: H412 | 4 - <5,01 % |
| CAS: 88-41-5 EC: 201-828-7 Index: Non-applicable REACH: Non-applicable | 2-tert-butylcyclohexyl acetate ⁽¹⁾ Self-classified Regulation 1272/2008 Aquatic Chronic 2: H411 | 2 - <3,01 % |
| CAS: 18479-58-8 EC: 242-362-4 Index: Non-applicable REACH: 01-2119457274-37-XXXX | 2,6-dimethyloct-7-en-2-ol ⁽²⁾ Self-classified Regulation 1272/2008 Eye Irrit. 2: H319; Skin Irrit. 2: H315 - Warning | 2 - <3,01 % |
| CAS: 1222-05-5 EC: 214-946-9 Index: 603-212-00-7 REACH: 01-2119488227-29-XXXX | 1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran ⁽¹⁾ ATP ATP01 Regulation 1272/2008 Aquatic Acute 1: H400; Aquatic Chronic 1: H410 - Warning | 1 - <2,01 % |
| CAS: 68039-49-6 EC: 268-264-1 Index: Non-applicable REACH: Non-applicable | 2,4-dimethylcyclohex-3-ene-1-carbaldehyde ⁽¹⁾ Self-classified Regulation 1272/2008 Aquatic Chronic 2: H411; Eye Irrit. 2: H319; Skin Irrit. 2: H315; Skin Sens. 1B: H317 - Warning | 1 - <2,01 % |
| CAS: 120-51-4 EC: 204-402-9 Index: 607-085-00-9 REACH: 01-2119976371-33-XXXX | Benzyl benzoate ⁽¹⁾ Self-classified Regulation 1272/2008 Acute Tox. 4: H302; Aquatic Acute 1: H400; Aquatic Chronic 2: H411 - Warning | 1 - <2,01 % |
| CAS: 5989-27-5 EC: 227-813-5 Index: 601-096-00-2 REACH: 01-2119529223-47-XXXX | d-limonene ⁽¹⁾ Self-classified Regulation 1272/2008 Aquatic Acute 1: H400; Aquatic Chronic 3: H412; Asp. Tox. 1: H304; Flam. Liq. 3: H226; Skin Irrit. 2: H315; Skin Sens. 1: H317 - Danger | 0,2 - <1,01 % |
| CAS: 106-24-1 EC: 203-377-1 Index: 603-241-00-5 REACH: 01-2119552430-49-XXXX | Geraniol ⁽¹⁾ Self-classified Regulation 1272/2008 Eye Dam. 1: H318; Skin Irrit. 2: H315; Skin Sens. 1: H317 - Danger | 0,02 - <0,21 % |

⁽¹⁾ Substances presenting a health or environmental hazard which meet criteria laid down in Regulation (EU) No. 2020/878

⁽²⁾ Voluntarily-listed substance failing to meet any of the criteria set out in Regulation (EU) No. 2020/878

To obtain more information on the hazards of the substances consult sections 11, 12 and 16.

SECTION 4: FIRST AID MEASURES
4.1 Description of first aid measures:

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.

By inhalation:

This product does not contain substances classified as hazardous for inhalation, however, in case of symptoms of intoxication remove the person affected from the exposure area and provide with fresh air. Seek medical attention if the symptoms get worse or persist.

By skin contact:

May cause an allergic skin reaction. In case of contact it is recommended to clean the affected area thoroughly with water and neutral soap. In case of changes on the skin (stinging, redness, rashes, blisters,...), seek medical advice with this Safety Data Sheet

By eye contact:

- CONTINUED ON NEXT PAGE -

**E702001 - Edge Wave 2.0
Apple - Green**

Printing: 04/08/2022

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Revised: 24/06/2022

Version: 2 (Replaced 1)

SECTION 4: FIRST AID MEASURES (continued)

Rinse eyes thoroughly with water for at least 15 minutes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, in which case removal could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS for the product.

By ingestion/aspiration:

Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. Keep the person affected at rest. Rinse out the mouth and throat, as they may have been affected during ingestion.

4.2 Most important symptoms and effects, both acute and delayed:

Acute and delayed effects are indicated in sections 2 and 11.

4.3 Indication of any immediate medical attention and special treatment needed:

Non-applicable

SECTION 5: FIREFIGHTING MEASURES**5.1 Extinguishing media:****Suitable extinguishing media:**

Product is non-flammable under normal conditions of storage, manipulation and use, but the product contains flammable substances. In the case of inflammation as a result of improper manipulation, storage or use preferably use polyvalent powder extinguishers (ABC powder), in accordance with the Regulation on fire protection systems.

Unsuitable extinguishing media:

IT IS RECOMMENDED NOT to use full jet water as an extinguishing agent.

5.2 Special hazards arising from the substance or mixture:

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

5.3 Advice for firefighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and self-contained breathing apparatus (SCBA). Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...) in accordance with Directive 89/654/EC.

Additional provisions:

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Eliminate all sources of ignition. In case of fire, cool the storage containers and tanks for products susceptible to combustion, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

SECTION 6: ACCIDENTAL RELEASE MEASURES**6.1 Personal precautions, protective equipment and emergency procedures:****For non-emergency personnel:**

Sweep up and shovel product or collect by other means and place in container for reuse (preferred) or disposal

For emergency responders:

See section 8.

6.2 Environmental precautions:

Avoid at all cost any type of spillage into an aqueous medium. Contain the product absorbed appropriately in hermetically sealed containers. Notify the relevant authority in case of exposure to the general public or the environment.

6.3 Methods and material for containment and cleaning up:

It is recommended:

Sweep up and shovel product or collect by other means and place in container for reuse (preferred) or disposal

6.4 Reference to other sections:

See sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

- CONTINUED ON NEXT PAGE -

**E702001 - Edge Wave 2.0
Apple - Green**

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Date of compilation: 11/05/2022

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SECTION 7: HANDLING AND STORAGE (continued)

7.1 Precautions for safe handling:

A.- General precautions for safe use

Comply with the current legislation concerning the prevention of industrial risks with regards manually handling weights. Maintain order, cleanliness and destroy using safe methods (section 6).

B.- Technical recommendations for the prevention of fires and explosions

Due to its inflammable nature, the product does not present a fire risk under normal conditions of storage, handling and use.

C.- Technical recommendations on general occupational hygiene

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

Sweep up and shovel product or collect by other means and place in container for reuse (preferred) or disposal See sections 8 and 13.

7.2 Conditions for safe storage, including any incompatibilities:

A.- Technical measures for storage

Minimum Temp.: 5 °C

Maximum Temp.: 30 °C

Maximum time: 6 Months

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

7.3 Specific end use(s):

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters:

Substances whose occupational exposure limits have to be monitored in the workplace (European OEL, not country-specific legislation):

Nuisance dust: Inhalable dust 10 mg/m³ // Respirable dust 4 mg/m³

DNEL (Workers):

| Identification | | Short exposure | | Long exposure | |
|---|------------|-----------------------|----------------|-------------------------|----------------|
| | | Systemic | Local | Systemic | Local |
| 2,6-dimethyloct-7-en-2-ol CAS: 18479-58-8 EC: 242-362-4 | Oral | Non-applicable | Non-applicable | Non-applicable | Non-applicable |
| | Dermal | Non-applicable | Non-applicable | 20,8 mg/kg | Non-applicable |
| | Inhalation | Non-applicable | Non-applicable | 73,5 mg/m ³ | Non-applicable |
| 1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran CAS: 1222-05-5 EC: 214-946-9 | Oral | Non-applicable | Non-applicable | Non-applicable | Non-applicable |
| | Dermal | Non-applicable | Non-applicable | 36,7 mg/kg | Non-applicable |
| | Inhalation | Non-applicable | Non-applicable | 13,5 mg/m ³ | Non-applicable |
| Benzyl benzoate CAS: 120-51-4 EC: 204-402-9 | Oral | Non-applicable | Non-applicable | Non-applicable | Non-applicable |
| | Dermal | Non-applicable | Non-applicable | 2,6 mg/kg | Non-applicable |
| | Inhalation | 102 mg/m ³ | Non-applicable | 5,1 mg/m ³ | Non-applicable |
| d-limonene CAS: 5989-27-5 EC: 227-813-5 | Oral | Non-applicable | Non-applicable | Non-applicable | Non-applicable |
| | Dermal | Non-applicable | Non-applicable | 9,5 mg/kg | Non-applicable |
| | Inhalation | Non-applicable | Non-applicable | 66,7 mg/m ³ | Non-applicable |
| Geraniol CAS: 106-24-1 EC: 203-377-1 | Oral | Non-applicable | Non-applicable | Non-applicable | Non-applicable |
| | Dermal | Non-applicable | Non-applicable | 12,5 mg/kg | Non-applicable |
| | Inhalation | Non-applicable | Non-applicable | 161,6 mg/m ³ | Non-applicable |

DNEL (General population):

- CONTINUED ON NEXT PAGE -

E702001 - Edge Wave 2.0
Apple - Green

Printing: 04/08/2022

Date of compilation: 11/05/2022

Revised: 24/06/2022

Version: 2 (Replaced 1)

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

| Identification | | Short exposure | | Long exposure | |
|---|------------|----------------------|----------------|------------------------|----------------|
| | | Systemic | Local | Systemic | Local |
| 2,6-dimethyloct-7-en-2-ol CAS: 18479-58-8 EC: 242-362-4 | Oral | Non-applicable | Non-applicable | 12,5 mg/kg | Non-applicable |
| | Dermal | Non-applicable | Non-applicable | 12,5 mg/kg | Non-applicable |
| | Inhalation | Non-applicable | Non-applicable | 21,7 mg/m ³ | Non-applicable |
| 1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran CAS: 1222-05-5 EC: 214-946-9 | Oral | Non-applicable | Non-applicable | 2,3 mg/kg | Non-applicable |
| | Dermal | Non-applicable | Non-applicable | 22 mg/kg | Non-applicable |
| | Inhalation | Non-applicable | Non-applicable | 4 mg/m ³ | Non-applicable |
| Benzyl benzoate CAS: 120-51-4 EC: 204-402-9 | Oral | 78 mg/kg | Non-applicable | 0,4 mg/kg | Non-applicable |
| | Dermal | Non-applicable | Non-applicable | 1,3 mg/kg | Non-applicable |
| | Inhalation | 25 mg/m ³ | Non-applicable | 1,25 mg/m ³ | Non-applicable |
| d-limonene CAS: 5989-27-5 EC: 227-813-5 | Oral | Non-applicable | Non-applicable | 4,8 mg/kg | Non-applicable |
| | Dermal | Non-applicable | Non-applicable | 4,8 mg/kg | Non-applicable |
| | Inhalation | Non-applicable | Non-applicable | 16,6 mg/m ³ | Non-applicable |
| Geraniol CAS: 106-24-1 EC: 203-377-1 | Oral | Non-applicable | Non-applicable | 13,75 mg/kg | Non-applicable |
| | Dermal | Non-applicable | Non-applicable | 7,5 mg/kg | Non-applicable |
| | Inhalation | Non-applicable | Non-applicable | 47,8 mg/m ³ | Non-applicable |

PNEC:

| Identification | | | | |
|---|--------------|----------------|-------------------------|--------------|
| 2,6-dimethyloct-7-en-2-ol CAS: 18479-58-8 EC: 242-362-4 | STP | 10 mg/L | Fresh water | 0,0278 mg/L |
| | Soil | 0,103 mg/kg | Marine water | 0,00278 mg/L |
| | Intermittent | 0,278 mg/L | Sediment (Fresh water) | 0,594 mg/kg |
| | Oral | 0,111 g/kg | Sediment (Marine water) | 0,059 mg/kg |
| 1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran CAS: 1222-05-5 EC: 214-946-9 | STP | 1 mg/L | Fresh water | 0,0068 mg/L |
| | Soil | 1,5 mg/kg | Marine water | 0,00044 mg/L |
| | Intermittent | Non-applicable | Sediment (Fresh water) | 2 mg/kg |
| | Oral | 20,4 g/kg | Sediment (Marine water) | 0,394 mg/kg |
| Benzyl benzoate CAS: 120-51-4 EC: 204-402-9 | STP | 100 mg/L | Fresh water | 0,017 mg/L |
| | Soil | 2,12 mg/kg | Marine water | 0,002 mg/L |
| | Intermittent | Non-applicable | Sediment (Fresh water) | 10,66 mg/kg |
| | Oral | Non-applicable | Sediment (Marine water) | 1,07 mg/kg |
| d-limonene CAS: 5989-27-5 EC: 227-813-5 | STP | 1,8 mg/L | Fresh water | 0,014 mg/L |
| | Soil | 0,763 mg/kg | Marine water | 0,0014 mg/L |
| | Intermittent | Non-applicable | Sediment (Fresh water) | 3,85 mg/kg |
| | Oral | 0,133 g/kg | Sediment (Marine water) | 0,385 mg/kg |
| Geraniol CAS: 106-24-1 EC: 203-377-1 | STP | 0,7 mg/L | Fresh water | 0,011 mg/L |
| | Soil | 0,017 mg/kg | Marine water | 0,001 mg/L |
| | Intermittent | 0,108 mg/L | Sediment (Fresh water) | 0,115 mg/kg |
| | Oral | Non-applicable | Sediment (Marine water) | 0,011 mg/kg |

8.2 Exposure controls:

A.- Individual protection measures, such as personal protective equipment

As a preventative measure it is recommended to use basic Personal Protective Equipment, with the corresponding <<CE marking>> in accordance with Regulation (EU) 2016/425. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1. All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

B.- Respiratory protection

The use of protection equipment will be necessary if a mist forms or if the occupational exposure limits are exceeded.

C.- Specific protection for the hands

- CONTINUED ON NEXT PAGE -

**E702001 - Edge Wave 2.0
Apple - Green**



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Revised: 24/06/2022



Version: 2 (Replaced 1)

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)



| Pictogram | PPE | Labelling | CEN Standard | Remarks |
|--|---|---|--------------|--|
|  Mandatory hand protection | Protective gloves against minor risks (Material: Butyl, Breakthrough time: 240 - 480 min, Thickness: 0.38 mm) |  | | Replace gloves in case of any sign of damage. For prolonged periods of exposure to the product for professional users/industrials, we recommend using CE III gloves in line with standards EN 420:2004+A1:2010 and EN ISO 374-1:2016+A1:2018 |

As the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance with total reliability and has therefore to be checked prior to the application.



D.- Eye and face protection

| Pictogram | PPE | Labelling | CEN Standard | Remarks |
|--|---|---|---------------------------------|---|
|  Mandatory face protection | Panoramic glasses against splash/projections. |  | EN 166:2002 EN ISO 4007:2018 | Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing. |

E.- Body protection

| Pictogram | PPE | Labelling | CEN Standard | Remarks |
|-----------|----------------------|---|-------------------|---|
| | Work clothing |  | | Replace before any evidence of deterioration. For periods of prolonged exposure to the product for professional/industrial users CE III is recommended, in accordance with the regulations in EN ISO 6529:2013, EN ISO 6530:2005, EN ISO 13688:2013, EN 464:1994. |
| | Anti-slip work shoes |  | EN ISO 20347:2012 | Replace before any evidence of deterioration. For periods of prolonged exposure to the product for professional/industrial users CE III is recommended, in accordance with the regulations in EN ISO 20345:2012 y EN 13832-1:2007 |

F.- Additional emergency measures

| Emergency measure | Standards | Emergency measure | Standards |
|---|---|--|--|
|  Emergency shower | ANSI Z358-1 ISO 3864-1:2011, ISO 3864-4:2011 |  Eyewash stations | DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011 |

Environmental exposure controls:

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D

Volatile organic compounds:

With regard to Directive 2010/75/EU, this product has the following characteristics:

| | |
|---------------------------|-------------------------------------|
| V.O.C. (Supply): | 9 % weight |
| V.O.C. density at 20 °C: | 84,46 kg/m ³ (84,46 g/L) |
| Average carbon number: | 9,11 |
| Average molecular weight: | 156,01 g/mol |

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

For complete information see the product datasheet.

Appearance:

| | |
|--------------------------|---|
| Physical state at 20 °C: | Solid |
| Appearance: | Not available |
| Colour: |  Green |
| Odour: | Apple |

*Not relevant due to the nature of the product, not providing information property of its hazards.

- CONTINUED ON NEXT PAGE -

**E702001 - Edge Wave 2.0
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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)

Odour threshold: Non-applicable *

Volatility:

Boiling point at atmospheric pressure: Non-applicable *

Vapour pressure at 20 °C: Non-applicable *

Vapour pressure at 50 °C: Non-applicable *

Evaporation rate at 20 °C: Non-applicable *

Product description:Density at 20 °C: 938,4 kg/m³

Relative density at 20 °C: 0,938

Dynamic viscosity at 20 °C: Non-applicable *

Kinematic viscosity at 20 °C: Non-applicable *

Kinematic viscosity at 40 °C: Non-applicable *

Concentration: Non-applicable *

pH: Non-applicable *

Vapour density at 20 °C: Non-applicable *

Partition coefficient n-octanol/water 20 °C: Non-applicable *

Solubility in water at 20 °C: Non-applicable *

Solubility properties: Non-applicable *

Decomposition temperature: Non-applicable *

Melting point/freezing point: Non-applicable *

Flammability:

Flash Point: Non-applicable

Flammability (solid, gas): Non-applicable *

Autoignition temperature: 237 °C

Lower flammability limit: Non-applicable *

Upper flammability limit: Non-applicable *

Explosive (Solid):

Lower explosive limit: Non-applicable *

Upper explosive limit: Non-applicable *

Particle characteristics:

Median equivalent diameter: Non-applicable *

9.2 Other information:**Information with regard to physical hazard classes:**

Explosive properties: Non-applicable *

Oxidising properties: Non-applicable *

Corrosive to metals: Non-applicable *

Heat of combustion: Non-applicable *

Aerosols-total percentage (by mass) of flammable components: Non-applicable *

Other safety characteristics:

Surface tension at 20 °C: Non-applicable *

Refraction index: Non-applicable *

*Not relevant due to the nature of the product, not providing information property of its hazards.

SECTION 10: STABILITY AND REACTIVITY

- CONTINUED ON NEXT PAGE -

**E702001 - Edge Wave 2.0
Apple - Green**

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Version: 2 (Replaced 1)

SECTION 10: STABILITY AND REACTIVITY (continued)**10.1 Reactivity:**

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7.

10.2 Chemical stability:

Chemically stable under the indicated conditions of storage, handling and use.

10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

| Shock and friction | Contact with air | Increase in temperature | Sunlight | Humidity |
|--------------------|------------------|-------------------------|------------|----------------|
| Not applicable | Not applicable | Precaution | Precaution | Not applicable |

10.5 Incompatible materials:

| Acids | Water | Oxidising materials | Combustible materials | Others |
|--------------------|----------------|---------------------|-----------------------|-------------------------------|
| Avoid strong acids | Not applicable | Avoid direct impact | Not applicable | Avoid alkalis or strong bases |

10.6 Hazardous decomposition products:

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO₂), carbon monoxide and other organic compounds.

SECTION 11: TOXICOLOGICAL INFORMATION**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008:**

The experimental information related to the toxicological properties of the product itself is not available

Dangerous health implications:

In case of exposure that is repetitive, prolonged or at concentrations higher than the recommended occupational exposure limits, adverse effects on health may result, depending on the means of exposure:

A- Ingestion (acute effect):

- Acute toxicity : Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for consumption. For more information see section 3.
- Corrosivity/Irritability: Based on available data, the classification criteria are not met. However, it does contain substances classified as hazardous for this effect. For more information see section 3.

B- Inhalation (acute effect):

- Acute toxicity : Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for inhalation. For more information see section 3.
- Corrosivity/Irritability: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

C- Contact with the skin and the eyes (acute effect):

- Contact with the skin: Based on available data, the classification criteria are not met. However, it contains substances classified as hazardous for skin contact. For more information see section 3.
- Contact with the eyes: Based on available data, the classification criteria are not met. However, it does contain substances classified as hazardous for this effect. For more information see section 3.

D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):

- Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for the effects mentioned. For more information see section 3.
IARC: d-limonene (3); C.I. Pigment Green 18 (3)
- Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

E- Sensitizing effects:

- Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous with sensitising effects. For more information see section 3.
- Skin: Prolonged contact with the skin can result in episodes of allergic contact dermatitis.

- CONTINUED ON NEXT PAGE -

**E702001 - Edge Wave 2.0
Apple - Green**

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SECTION 11: TOXICOLOGICAL INFORMATION (continued)

F- Specific target organ toxicity (STOT) - single exposure:

Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

G- Specific target organ toxicity (STOT)-repeated exposure:

- Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

- Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

H- Aspiration hazard:

Based on available data, the classification criteria are not met. However, it does contain substances classified as hazardous for this effect. For more information see section 3.

Other information:

Non-applicable

Specific toxicology information on the substances:

| Identification | Acute toxicity | | Genus |
|---|-----------------|----------------|--------|
| | | | |
| Benzyl benzoate CAS: 120-51-4 EC: 204-402-9 | LD50 oral | 1500 mg/kg | Rat |
| | LD50 dermal | 4000 mg/kg | Rabbit |
| | LC50 inhalation | Non-applicable | |
| d-limonene CAS: 5989-27-5 EC: 227-813-5 | LD50 oral | 4400 mg/kg | Rat |
| | LD50 dermal | >5000 mg/kg | Rabbit |
| | LC50 inhalation | Non-applicable | |
| Undecan-4-olide CAS: 104-67-6 EC: 203-225-4 | LD50 oral | 18500 mg/kg | Rat |
| | LD50 dermal | Non-applicable | |
| | LC50 inhalation | Non-applicable | |
| 2-tert-butylcyclohexyl acetate CAS: 88-41-5 EC: 201-828-7 | LD50 oral | 4600 mg/kg | Rat |
| | LD50 dermal | Non-applicable | |
| | LC50 inhalation | Non-applicable | |
| 2,6-dimethyloct-7-en-2-ol CAS: 18479-58-8 EC: 242-362-4 | LD50 oral | 3600 mg/kg | |
| | LD50 dermal | Non-applicable | |
| | LC50 inhalation | Non-applicable | |
| 2,4-dimethylcyclohex-3-ene-1-carbaldehyde CAS: 68039-49-6 EC: 268-264-1 | LD50 oral | 2500 mg/kg | |
| | LD50 dermal | Non-applicable | |
| | LC50 inhalation | Non-applicable | |
| Geraniol CAS: 106-24-1 EC: 203-377-1 | LD50 oral | 4200 mg/kg | Rat |
| | LD50 dermal | 5100 mg/kg | Rabbit |
| | LC50 inhalation | Non-applicable | |

11.2 Information on other hazards:

Endocrine disrupting properties

Endocrine-disrupting properties: The product fails to meet the criteria.

Other information

Non-applicable

**E702001 - Edge Wave 2.0
Apple - Green**

Printing: 04/08/2022

Date of compilation: 11/05/2022

Revised: 24/06/2022

Version: 2 (Replaced 1)

SECTION 12: ECOLOGICAL INFORMATION

The experimental information related to the eco-toxicological properties of the product itself is not available

12.1 Toxicity:

Acute toxicity:

| Identification | Concentration | Species | Genus |
|---|------------------------|---------------------------------|------------|
| Undecan-4-olide CAS: 104-67-6 EC: 203-225-4 | LC50 >10 - 100 (96 h) | | Fish |
| | EC50 >10 - 100 (48 h) | | Crustacean |
| | EC50 >10 - 100 (72 h) | | Algae |
| 2-tert-butylcyclohexyl acetate CAS: 88-41-5 EC: 201-828-7 | LC50 >1 - 10 (96 h) | | Fish |
| | EC50 >1 - 10 (48 h) | | Crustacean |
| | EC50 >1 - 10 (72 h) | | Algae |
| 1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran CAS: 1222-05-5 EC: 214-946-9 | LC50 0,95 mg/L (96 h) | Oryzias latipes | Fish |
| | EC50 0,194 mg/L (48 h) | Daphnia magna | Crustacean |
| | EC50 0,723 mg/L (72 h) | Pseudokirchneriella subcapitata | Algae |
| 2,4-dimethylcyclohex-3-ene-1-carbaldehyde CAS: 68039-49-6 EC: 268-264-1 | LC50 >1 - 10 (96 h) | | Fish |
| | EC50 >1 - 10 (48 h) | | Crustacean |
| | EC50 >1 - 10 (72 h) | | Algae |
| Benzyl benzoate CAS: 120-51-4 EC: 204-402-9 | LC50 2,32 mg/L (96 h) | Danio rerio | Fish |
| | EC50 3,1 mg/L (48 h) | Daphnia magna | Crustacean |
| | EC50 0,36 mg/L (72 h) | Pseudokirchneriella subcapitata | Algae |
| d-limonene CAS: 5989-27-5 EC: 227-813-5 | LC50 0,702 mg/L (96 h) | Pimephales promelas | Fish |
| | EC50 0,577 mg/L (48 h) | Daphnia magna | Crustacean |
| | EC50 Non-applicable | | |

Chronic toxicity:

| Identification | Concentration | Species | Genus |
|--|---------------------|---------------|------------|
| 2,6-dimethyloct-7-en-2-ol CAS: 18479-58-8 EC: 242-362-4 | NOEC Non-applicable | | |
| | NOEC 9,5 mg/L | Daphnia magna | Crustacean |
| Benzyl benzoate CAS: 120-51-4 EC: 204-402-9 | NOEC Non-applicable | | |
| | NOEC 0,258 mg/L | Daphnia magna | Crustacean |

12.2 Persistence and degradability:

| Identification | Degradability | | Biodegradability | |
|---|---------------|----------------|------------------|---------|
| | | | | |
| 2,6-dimethyloct-7-en-2-ol CAS: 18479-58-8 EC: 242-362-4 | BOD5 | Non-applicable | Concentration | 10 mg/L |
| | COD | Non-applicable | Period | 28 days |
| | BOD5/COD | Non-applicable | % Biodegradable | 72 % |

- CONTINUED ON NEXT PAGE -

E702001 - Edge Wave 2.0
Apple - Green

Printing: 04/08/2022

Date of compilation: 11/05/2022

Revised: 24/06/2022

Version: 2 (Replaced 1)

SECTION 12: ECOLOGICAL INFORMATION (continued)

| Identification | Degradability | | Biodegradability | |
|---|---------------|----------------|------------------|----------|
| | Parameter | Value | Parameter | Value |
| Benzyl benzoate CAS: 120-51-4 EC: 204-402-9 | BOD5 | Non-applicable | Concentration | 100 mg/L |
| | COD | Non-applicable | Period | 28 days |
| | BOD5/COD | Non-applicable | % Biodegradable | 94 % |
| d-limonene CAS: 5989-27-5 EC: 227-813-5 | BOD5 | Non-applicable | Concentration | 10 mg/L |
| | COD | Non-applicable | Period | 28 days |
| | BOD5/COD | Non-applicable | % Biodegradable | 71,4 % |
| Geraniol CAS: 106-24-1 EC: 203-377-1 | BOD5 | Non-applicable | Concentration | 100 mg/L |
| | COD | Non-applicable | Period | 21 days |
| | BOD5/COD | Non-applicable | % Biodegradable | 70 % |

12.3 Bioaccumulative potential:

| Identification | Bioaccumulation potential | |
|---|---------------------------|-----------|
| | Parameter | Value |
| 1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran CAS: 1222-05-5 EC: 214-946-9 | BCF | 1584 |
| | Pow Log | 5.9 |
| | Potential | Very High |
| Benzyl benzoate CAS: 120-51-4 EC: 204-402-9 | BCF | 193 |
| | Pow Log | 4 |
| | Potential | High |
| d-limonene CAS: 5989-27-5 EC: 227-813-5 | BCF | 660 |
| | Pow Log | 4.83 |
| | Potential | High |
| Geraniol CAS: 106-24-1 EC: 203-377-1 | BCF | 110 |
| | Pow Log | 3.56 |
| | Potential | High |

12.4 Mobility in soil:

| Identification | Absorption/desorption | | Volatility | |
|---|-----------------------|----------------------|------------|----------------|
| | Parameter | Value | Parameter | Value |
| Benzyl benzoate CAS: 120-51-4 EC: 204-402-9 | Koc | 6310 | Henry | Non-applicable |
| | Conclusion | Immobile | Dry soil | Non-applicable |
| | Surface tension | 4,626E-2 N/m (25 °C) | Moist soil | Non-applicable |
| d-limonene CAS: 5989-27-5 EC: 227-813-5 | Koc | 6324 | Henry | Non-applicable |
| | Conclusion | Immobile | Dry soil | Non-applicable |
| | Surface tension | 2,675E-2 N/m (25 °C) | Moist soil | Non-applicable |

12.5 Results of PBT and vPvB assessment:

Product fails to meet PBT/vPvB criteria

12.6 Endocrine disrupting properties:

- CONTINUED ON NEXT PAGE -

**E702001 - Edge Wave 2.0
Apple - Green**

Printing: 04/08/2022

Date of compilation: 11/05/2022

Revised: 24/06/2022

Version: 2 (Replaced 1)

SECTION 12: ECOLOGICAL INFORMATION (continued)

Endocrine-disrupting properties: The product fails to meet the criteria.

12.7 Other adverse effects:

Not described

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:

| Code | Description | Waste class (Regulation (EU) No 1357/2014) |
|-----------|--|--|
| 07 01 04* | other organic solvents, washing liquids and mother liquors | Dangerous |

Type of waste (Regulation (EU) No 1357/2014):

HP14 Ecotoxic

Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations in accordance with Annex 1 and Annex 2 (Directive 2008/98/EC). As under 15 01 (2014/955/EC) of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. Waste should not be disposed of to drains. See paragraph 6.2.

Regulations related to waste management:

In accordance with Annex II of Regulation (EC) No 1907/2006 (REACH) the community or state provisions related to waste management are stated

Community legislation: Directive 2008/98/EC, 2014/955/EU, Regulation (EU) No 1357/2014

SECTION 14: TRANSPORT INFORMATION

Transport of dangerous goods by land:

With regard to ADR 2021 and RID 2021:



- 14.1 UN number or ID number:** UN3077
- 14.2 UN proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Undecan-4-olide; 2-tert-butylcyclohexyl acetate)
- 14.3 Transport hazard class(es):** 9
- Labels:** 9
- 14.4 Packing group:** III
- 14.5 Environmental hazards:** Yes
- 14.6 Special precautions for user**
 - Special regulations: 274, 335, 375, 601
 - Tunnel restriction code: -
 - Physico-Chemical properties: see section 9
 - Limited quantities: 5 kg
- 14.7 Maritime transport in bulk according to IMO instruments:** Non-applicable

Transport of dangerous goods by sea:

With regard to IMDG 40-20:

- CONTINUED ON NEXT PAGE -

**E702001 - Edge Wave 2.0
Apple - Green**

Printing: 04/08/2022

Date of compilation: 11/05/2022

Revised: 24/06/2022

Version: 2 (Replaced 1)

SECTION 14: TRANSPORT INFORMATION (continued)



- 14.1 UN number or ID number:** UN3077
- 14.2 UN proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Undecan-4-olide; 2-tert-butylcyclohexyl acetate)
- 14.3 Transport hazard class(es):** 9
Labels: 9
- 14.4 Packing group:** III
- 14.5 Marine pollutant:** Yes
- 14.6 Special precautions for user**
Special regulations: 335, 966, 274, 967, 969
EmS Codes: F-A, S-F
Physico-Chemical properties: see section 9
Limited quantities: 5 kg
Segregation group: Non-applicable
- 14.7 Maritime transport in bulk according to IMO instruments:** Non-applicable

Transport of dangerous goods by air:

With regard to IATA/ICAO 2022:



- 14.1 UN number or ID number:** UN3077
- 14.2 UN proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Undecan-4-olide; 2-tert-butylcyclohexyl acetate)
- 14.3 Transport hazard class(es):** 9
Labels: 9
- 14.4 Packing group:** III
- 14.5 Environmental hazards:** Yes
- 14.6 Special precautions for user**
Physico-Chemical properties: see section 9
- 14.7 Maritime transport in bulk according to IMO instruments:** Non-applicable

SECTION 15: REGULATORY INFORMATION

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

Candidate substances for authorisation under the Regulation (EC) No 1907/2006 (REACH): Non-applicable
 Substances included in Annex XIV of REACH ("Authorisation List") and sunset date: Non-applicable
 Regulation (EC) No 1005/2009, about substances that deplete the ozone layer: Non-applicable
 Article 95, REGULATION (EU) No 528/2012: Geraniol (Product-type 18, 19)
 REGULATION (EU) No 649/2012, in relation to the import and export of hazardous chemical products: Non-applicable

Seveso III:

| Section | Description | Lower-tier requirements | Upper-tier requirements |
|---------|-----------------------|-------------------------|-------------------------|
| E2 | ENVIRONMENTAL HAZARDS | 200 | 500 |

Limitations to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII REACH, etc):

Non-applicable

Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as a basis for conducting workplace-specific risk assessments in order to establish the necessary risk prevention measures for the handling, use, storage and disposal of this product.

Other legislation:

The product could be affected by sectorial legislation

15.2 Chemical safety assessment:

- CONTINUED ON NEXT PAGE -

**E702001 - Edge Wave 2.0**
Apple - Green

Printing: 04/08/2022

Date of compilation: 11/05/2022

Revised: 24/06/2022

Version: 2 (Replaced 1)

SECTION 15: REGULATORY INFORMATION (continued)

The supplier has not carried out evaluation of chemical safety.

SECTION 16: OTHER INFORMATION**Legislation related to safety data sheets:**

The SDS shall be supplied in an official language of the country where the product is placed on the market. This safety data sheet has been designed in accordance with ANNEX II-Guide to the compilation of safety data sheets of Regulation (EC) No 1907/2006 (COMMISSION REGULATION (EU) 2020/878).

Modifications related to the previous Safety Data Sheet which concerns the ways of managing risks.:

CLP Regulation (EC) No 1272/2008 (SECTION 2, SECTION 16):

- Precautionary statements

Texts of the legislative phrases mentioned in section 2:

H411: Toxic to aquatic life with long lasting effects.

H317: May cause an allergic skin reaction.

Texts of the legislative phrases mentioned in section 3:

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

CLP Regulation (EC) No 1272/2008:

Acute Tox. 4: H302 - Harmful if swallowed.

Aquatic Acute 1: H400 - Very toxic to aquatic life.

Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects.

Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects.

Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects.

Asp. Tox. 1: H304 - May be fatal if swallowed and enters airways.

Eye Dam. 1: H318 - Causes serious eye damage.

Eye Irrit. 2: H319 - Causes serious eye irritation.

Flam. Liq. 3: H226 - Flammable liquid and vapour.

Skin Irrit. 2: H315 - Causes skin irritation.

Skin Sens. 1: H317 - May cause an allergic skin reaction.

Skin Sens. 1B: H317 - May cause an allergic skin reaction.

Classification procedure:

Aquatic Chronic 2: Calculation method

Skin Sens. 1B: Calculation method

Advice related to training:

Training is recommended in order to prevent industrial risks for staff using this product and to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

Principal bibliographical sources:

<http://echa.europa.eu>

<http://eur-lex.europa.eu>

Abbreviations and acronyms:

ADR: European agreement concerning the international carriage of dangerous goods by road

IMDG: International maritime dangerous goods code

IATA: International Air Transport Association

ICAO: International Civil Aviation Organisation

COD: Chemical Oxygen Demand

BOD5: 5day biochemical oxygen demand

BCF: Bioconcentration factor

LD50: Lethal Dose 50

LC50: Lethal Concentration 50

EC50: Effective concentration 50

LogPOW: Octanolwater partition coefficient

Koc: Partition coefficient of organic carbon

UFI: unique formula identifier

IARC: International Agency for Research on Cancer

The information contained in this safety data sheet is based on sources, technical knowledge and current legislation at European and state level, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.

- END OF SAFETY DATA SHEET -