


**APPLE PUMPKIN**

Date of compilation: 25/11/2024 Version: 1

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

- 1.1 Product identifier:** APPLE PUMPKIN  
**Other means of identification:**  
Not relevant
- 1.2 Relevant identified uses of the substance or mixture and uses advised against:**  
Relevant uses: Essence  
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:**  
ECHOES MUM VE KOKU TASARIM PAZARLAMA VE SAN. A.Ş  
FERİKÖY FIRIN SOKAK NO: 69 KAT: 4 34360  
BOMONTI / ŞİŞLİ - İSTANBUL  
T + 90 212 231 41 54  
info@candlelab.com.tr - www.candlelab.com.tr
- 1.4 Emergency telephone number:** 114

**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  
Eye Irrit. 2: Eye irritation, Category 2, H319  
Skin Irrit. 2: Skin irritation, Category 2, H315  
Skin Sens. 1A: Sensitisation, skin, Category 1A, 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.  
Eye Irrit. 2: H319 - Causes serious eye irritation.  
Skin Irrit. 2: H315 - Causes skin irritation.  
Skin Sens. 1A: H317 - May cause an allergic skin reaction.
- Precautionary statements:**  
P264: Wash thoroughly after handling.  
P273: Avoid release to the environment.  
P302+P352: IF ON SKIN: Wash with plenty of water.  
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P333+P313: If skin irritation or rash occurs: Get medical advice/attention.
- Supplementary information:**  
Contains (2E)-2-methyl-3-phenylacrylaldehyde, (E)-2-methoxy-4-(prop-1-enyl)phenol, (r)-p-mentha-1,8-diene, 2,4-dimethylcyclohex-3-ene-1-carbaldehyde, Acetyl eugenol, Caryophyllene, Cinnamaldehyde, Citral, Coumarin, Eugenol, Geraniol, Linalool, Piperonal.
- 2.3 Other hazards:**  
Product does not meet PBT/vPvB criteria  
Endocrine-disrupting properties: The product does not meet the criteria.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

- CONTINUED ON NEXT PAGE -

**APPLE PUMPKIN**

Date of compilation: 25/11/2024

Version: 1

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS (continued)**

**3.1 Substance:**

Non-applicable

**3.2 Mixture:**

**Chemical description:** Mixture based on aromatising substances and preparations.

**Components:**

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

Identification	Chemical name/Classification	Concentration
CAS: 120-51-4 EC: 204-402-9 Index: 607-085-00-9 REACH:01-2119976371-33-XXXX	<b>Benzyl benzoate<sup>(1)</sup></b> ATP ATP01	25 - <50 %
	Regulation 1272/2008 Acute Tox. 4: H302; Aquatic Chronic 2: H411 - Warning	
CAS: 104-55-2 EC: 203-213-9 Index: Non-applicable REACH:01-2119935242-45-XXXX	<b>Cinnamaldehyde<sup>(1)</sup></b> Self-classified	10 - <25 %
	Regulation 1272/2008 Acute Tox. 4: H312; Eye Irrit. 2: H319; Skin Irrit. 2: H315; Skin Sens. 1: H317 - Warning	
CAS: 97-53-0 EC: 202-589-1 Index: Non-applicable REACH:01-2119971802-33-XXXX	<b>Eugenol<sup>(1)</sup></b> Self-classified	2,5 - <10 %
	Regulation 1272/2008 Eye Irrit. 2: H319; Skin Sens. 1B: H317 - Warning	
CAS: 20298-69-5 EC: 243-718-1 Index: Non-applicable REACH:01-2119970713-33-XXXX	<b>cis-2-tert-butylcyclohexyl acetate<sup>(1)</sup></b> Self-classified	2,5 - <10 %
	Regulation 1272/2008 Aquatic Chronic 2: H411	
CAS: 121-32-4 EC: 204-464-7 Index: Non-applicable REACH:01-2119958961-24-XXXX	<b>3-ethoxy-4-hydroxybenzaldehyde<sup>(1)</sup></b> Self-classified	2,5 - <10 %
	Regulation 1272/2008 Eye Irrit. 2: H319 - Warning	
CAS: 5989-27-5 EC: 227-813-5 Index: Non-applicable REACH:01-2119529223-47-XXXX	<b>(r)-p-mentha-1,8-diene<sup>(1)</sup></b> Self-classified	1 - <2,5 %
	Regulation 1272/2008 Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Asp. Tox. 1: H304; Flam. Liq. 3: H226; Skin Irrit. 2: H315; Skin Sens. 1: H317 - Danger	
CAS: 104-67-6 EC: 203-225-4 Index: Non-applicable REACH:01-2119959333-34-XXXX	<b>Undecan-4-olide<sup>(1)</sup></b> Self-classified	1 - <2,5 %
	Regulation 1272/2008 Aquatic Chronic 3: H412	
CAS: 91-64-5 EC: 202-086-7 Index: Non-applicable REACH:01-2119943756-26-XXXX	<b>Coumarin<sup>(1)</sup></b> Self-classified	1 - <2,5 %
	Regulation 1272/2008 Acute Tox. 4: H302; Skin Sens. 1: H317 - Warning	
CAS: 122-97-4 EC: 204-587-6 Index: Non-applicable REACH:01-2120105028-70-XXXX	<b>3-phenylpropan-1-ol<sup>(1)</sup></b> Self-classified	1 - <2,5 %
	Regulation 1272/2008 Eye Dam. 1: H318; Skin Corr. 1B: H314 - Danger	
CAS: 15174-47-7 EC: 701-219-0 Index: Non-applicable REACH:01-2119538797-21-XXXX	<b>(2E)-2-methyl-3-phenylacrylaldehyde<sup>(1)</sup></b> Self-classified	1 - <2,5 %
	Regulation 1272/2008 Aquatic Acute 1: H400; Aquatic Chronic 2: H411; Skin Sens. 1: H317; EUH208 - Warning	
CAS: 121-33-5 EC: 204-465-2 Index: Non-applicable REACH:01-2119516040-60-XXXX	<b>Vanillin<sup>(1)</sup></b> Self-classified	1 - <2,5 %
	Regulation 1272/2008 Eye Irrit. 2: H319 - Warning	
CAS: 4940-11-8 EC: 225-582-5 Index: Non-applicable REACH:01-2120758795-36-XXXX	<b>2-ethyl-3-hydroxy-4-pyrone<sup>(1)</sup></b> Self-classified	1 - <2,5 %
	Regulation 1272/2008 Acute Tox. 4: H302 - Warning	

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

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

- CONTINUED ON NEXT PAGE -

APPLE PUMPKIN

Date of compilation: 25/11/2024

Version: 1

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS (continued)

Identification	Chemical name/Classification	Concentration
CAS: 128-37-0 EC: 204-881-4 Index: Non-applicable REACH:01-2119565113-46-XXXX	<b>2,6-di-tert-butyl-p-cresol<sup>(1)</sup></b> Self-classified	1 - <2,5 %
	Regulation 1272/2008 Aquatic Acute 1: H400; Aquatic Chronic 1: H410 - Warning	
CAS: 123-68-2 EC: 204-642-4 Index: Non-applicable REACH:01-2119983573-26-XXXX	<b>Allyl hexanoate<sup>(1)</sup></b> Self-classified	1 - <2,5 %
	Regulation 1272/2008 Acute Tox. 3: H301+H311+H331; Aquatic Acute 1: H400; Aquatic Chronic 2: H411 - Danger	
CAS: 1222-05-5 EC: 214-946-9 Index: 603-212-00-7 REACH:01-2119488227-29-XXXX	<b>1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran<sup>(1)</sup></b> ATP ATP01	0,1 - <1 %
	Regulation 1272/2008 Aquatic Acute 1: H400; Aquatic Chronic 1: H410 - Warning	
CAS: 78-70-6 EC: 201-134-4 Index: 603-235-00-2 REACH:01-2119474016-42-XXXX	<b>Linalool<sup>(1)</sup></b> Self-classified	0,1 - <1 %
	Regulation 1272/2008 Eye Irrit. 2: H319; Skin Irrit. 2: H315; Skin Sens. 1B: H317 - Warning	
CAS: 68039-49-6 EC: 268-264-1 Index: Non-applicable REACH:Non-applicable	<b>2,4-dimethylcyclohex-3-ene-1-carbaldehyde<sup>(1)</sup></b> Self-classified	0,1 - <1 %
	Regulation 1272/2008 Aquatic Chronic 2: H411; Skin Irrit. 2: H315; Skin Sens. 1B: H317 - Warning	
CAS: 120-57-0 EC: 204-409-7 Index: Non-applicable REACH:01-2119983608-21-XXXX	<b>Piperonal<sup>(1)</sup></b> Self-classified	0,1 - <1 %
	Regulation 1272/2008 Repr. 2: H361fd; Skin Sens. 1B: H317 - Warning	
CAS: 93-28-7 EC: 202-235-6 Index: Non-applicable REACH:01-2120749746-40-XXXX	<b>Acetyl eugenol<sup>(1)</sup></b> Self-classified	0,1 - <1 %
	Regulation 1272/2008 Acute Tox. 4: H302; Skin Sens. 1B: H317 - Warning	
CAS: 5392-40-5 EC: 226-394-6 Index: 605-019-00-3 REACH:01-2119462829-23-XXXX	<b>Citral<sup>(1)</sup></b> ATP CLP00	0,1 - <1 %
	Regulation 1272/2008 Skin Irrit. 2: H315; Skin Sens. 1: H317 - Warning	
CAS: 106-24-1 EC: 203-377-1 Index: 603-241-00-5 REACH:01-2119552430-49-XXXX	<b>Geraniol<sup>(1)</sup></b> Self-classified	0,1 - <1 %
	Regulation 1272/2008 Eye Dam. 1: H318; Skin Irrit. 2: H315; Skin Sens. 1: H317 - Danger	
CAS: 87-44-5 EC: 201-746-1 Index: Non-applicable REACH:01-2120745237-53-XXXX	<b>Caryophyllene<sup>(1)</sup></b> Self-classified	0,1 - <1 %
	Regulation 1272/2008 Asp. Tox. 1: H304; Skin Sens. 1B: H317 - Danger	
CAS: 5932-68-3 EC: 227-678-2 Index: 604-094-00-X REACH:01-2120223682-61-XXXX	<b>(E)-2-methoxy-4-(prop-1-enyl)phenol<sup>(1)</sup></b> Self-classified	<0,1 %
	Regulation 1272/2008 Acute Tox. 4: H302+H312+H332; Eye Irrit. 2: H319; Skin Irrit. 2: H315; Skin Sens. 1A: H317; STOT SE 3: H335 - Warning	
CAS: 71048-82-3 EC: 275-156-8 Index: Non-applicable REACH:01-2119535122-53-XXXX	<b>[1α(E),2β]-1-(2,6,6-trimethylcyclohex-3-en-1-yl)but-2-en-1-one<sup>(2)</sup></b> Self-classified	<0,1 %
	Regulation 1272/2008 Acute Tox. 4: H302; Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Skin Irrit. 2: H315; Skin Sens. 1: H317 - Warning	

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

<sup>(2)</sup> 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.

Other information:

Identification	Specific concentration limit
(E)-2-methoxy-4-(prop-1-enyl)phenol CAS: 5932-68-3 EC: 227-678-2	% (w/w) >=0,01: Skin Sens. 1A - H317

Acute toxicity estimate for the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or as determined in accordance with Annex I to that Regulation:

- CONTINUED ON NEXT PAGE -

**APPLE PUMPKIN**

Date of compilation: 25/11/2024 Version: 1

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS (continued)**

Identification	Acute toxicity		Genus
Benzyl benzoate CAS: 120-51-4 EC: 204-402-9	LD50 oral	500 mg/kg	Rat
	LD50 dermal	Not relevant	
	LC50 inhalation	Not relevant	
Cinnamaldehyde CAS: 104-55-2 EC: 203-213-9	LD50 oral	Not relevant	
	LD50 dermal	1260 mg/kg	Rabbit
	LC50 inhalation	Not relevant	
Coumarin CAS: 91-64-5 EC: 202-086-7	LD50 oral	293 mg/kg	Rat
	LD50 dermal	293 mg/kg	Rat
	LC50 inhalation	Not relevant	
2-ethyl-3-hydroxy-4-pyrone CAS: 4940-11-8 EC: 225-582-5	LD50 oral	1200 mg/kg	Rat
	LD50 dermal	Not relevant	
	LC50 inhalation	Not relevant	
Allyl hexanoate CAS: 123-68-2 EC: 204-642-4	LD50 oral	220 mg/kg	
	LD50 dermal	300 mg/kg	
	LC50 inhalation	3 mg/L (ATEi)	
Acetyl eugenol CAS: 93-28-7 EC: 202-235-6	LD50 oral	1670 mg/kg	Rat
	LD50 dermal	Not relevant	
	LC50 inhalation	Not relevant	
(E)-2-methoxy-4-(prop-1-enyl)phenol CAS: 5932-68-3 EC: 227-678-2	LD50 oral	450 mg/kg	Rat
	LD50 dermal	1911 mg/kg	Rat
	LC50 inhalation	Not relevant	
[1 $\alpha$ (E),2 $\beta$ ]-1-(2,6,6-trimethylcyclohex-3-en-1-yl)but-2-en-1-one CAS: 71048-82-3 EC: 275-156-8	LD50 oral	1400 mg/kg	Rat
	LD50 dermal	Not relevant	
	LC50 inhalation	Not relevant	

**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 is not classified as hazardous through inhalation.

**By skin contact:**

Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.

**By eye contact:**

Rinse eyes thoroughly with lukewarm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, in which case this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of 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:**

Not relevant

- CONTINUED ON NEXT PAGE -

**APPLE PUMPKIN**

Date of compilation: 25/11/2024 Version: 1

**SECTION 5: FIREFIGHTING MEASURES**

**5.1 Extinguishing media:**

**Suitable extinguishing media:**

Foam extinguisher (AB), Dry Chemical Powder (ABC) Fire Extinguisher, Carbon dioxide extinguisher (BC)

**Unsuitable extinguishing media:**

Water jet

**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:**

Isolate leaks provided that there is no additional risk for the people performing this task. Evacuate the area and keep out those without protection. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Above all prevent the formation of any vapour-air flammable mixtures, through either ventilation or the use of an inert medium. Remove any source of ignition. Eliminate electrostatic charges by interconnecting all the conductive surfaces on which static electricity could form, and also ensuring that all surfaces are connected to the ground.

**For emergency responders:**

Wear protective equipment. Keep unprotected persons away. 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:

Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

**6.4 Reference to other sections:**

See sections 8 and 13.

**SECTION 7: HANDLING AND STORAGE**

**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 dispose of using safe methods (section 6).

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

Avoid the evaporation of the product as it contains flammable substances, which could form flammable vapour/air mixtures in the presence of sources of ignition. Control sources of ignition (mobile phones, sparks,...) and transfer at slow speeds to avoid the creation of electrostatic charges. Consult section 10 for conditions and materials that should be avoided.

C.- Technical recommendations on general occupational hygiene

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

- CONTINUED ON NEXT PAGE -

**APPLE PUMPKIN**

Date of compilation: 25/11/2024 Version: 1

**SECTION 7: HANDLING AND STORAGE (continued)**

**D.- Technical recommendations to prevent environmental risks**

Due to the danger of this product for the environment it is recommended to use it within an area containing contamination control barriers in case of spillage, as well as having absorbent material in close proximity.

**7.2 Conditions for safe storage, including any incompatibilities:**

**A.- Specific storage requirements**

Minimum Temp.: -  
Maximum Temp.: -

**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):

There are no applicable occupational exposure limits for the substances contained in the product

**DNEL (Workers):**

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
Benzyl benzoate CAS: 120-51-4 EC: 204-402-9	Oral	Not relevant	Not relevant	Not relevant	Not relevant
	Dermal	Not relevant	Not relevant	2,6 mg/kg	Not relevant
	Inhalation	102 mg/m <sup>3</sup>	Not relevant	5,1 mg/m <sup>3</sup>	Not relevant
Cinnamaldehyde CAS: 104-55-2 EC: 203-213-9	Oral	Not relevant	Not relevant	Not relevant	Not relevant
	Dermal	Not relevant	Not relevant	1,75 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	6,11 mg/m <sup>3</sup>	Not relevant
Eugenol CAS: 97-53-0 EC: 202-589-1	Oral	Not relevant	Not relevant	Not relevant	Not relevant
	Dermal	Not relevant	Not relevant	6 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	21,2 mg/m <sup>3</sup>	Not relevant
3-ethoxy-4-hydroxybenzaldehyde CAS: 121-32-4 EC: 204-464-7	Oral	Not relevant	Not relevant	Not relevant	Not relevant
	Dermal	Not relevant	Not relevant	7 mg/kg	Not relevant
	Inhalation	98 mg/m <sup>3</sup>	Not relevant	49 mg/m <sup>3</sup>	Not relevant
(r)-p-mentha-1,8-diene CAS: 5989-27-5 EC: 227-813-5	Oral	Not relevant	Not relevant	Not relevant	Not relevant
	Dermal	Not relevant	Not relevant	9,5 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	66,7 mg/m <sup>3</sup>	Not relevant
Coumarin CAS: 91-64-5 EC: 202-086-7	Oral	Not relevant	Not relevant	Not relevant	Not relevant
	Dermal	Not relevant	Not relevant	0,79 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	6,78 mg/m <sup>3</sup>	Not relevant
3-phenylpropan-1-ol CAS: 122-97-4 EC: 204-587-6	Oral	Not relevant	Not relevant	Not relevant	Not relevant
	Dermal	Not relevant	Not relevant	14 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	24,68 mg/m <sup>3</sup>	Not relevant
(2E)-2-methyl-3-phenylacrylaldehyde CAS: 15174-47-7 EC: 701-219-0	Oral	Not relevant	Not relevant	Not relevant	Not relevant
	Dermal	Not relevant	Not relevant	2,21 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	13,3 mg/m <sup>3</sup>	13,3 mg/m <sup>3</sup>
2-ethyl-3-hydroxy-4-pyrone CAS: 4940-11-8 EC: 225-582-5	Oral	Not relevant	Not relevant	Not relevant	Not relevant
	Dermal	Not relevant	Not relevant	5,6 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	19,7 mg/m <sup>3</sup>	Not relevant

- CONTINUED ON NEXT PAGE -

**APPLE PUMPKIN**

Date of compilation: 25/11/2024 Version: 1

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)**

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
2,6-di-tert-butyl-p-cresol CAS: 128-37-0 EC: 204-881-4	Oral	Not relevant	Not relevant	Not relevant	Not relevant
	Dermal	Not relevant	Not relevant	0,5 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	3,5 mg/m <sup>3</sup>	Not relevant
Allyl hexanoate CAS: 123-68-2 EC: 204-642-4	Oral	Not relevant	Not relevant	Not relevant	Not relevant
	Dermal	Not relevant	Not relevant	4,3 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	15 mg/m <sup>3</sup>	Not relevant
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	Not relevant	Not relevant	Not relevant	Not relevant
	Dermal	Not relevant	Not relevant	36,7 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	13,5 mg/m <sup>3</sup>	Not relevant
Linalool CAS: 78-70-6 EC: 201-134-4	Oral	Not relevant	Not relevant	Not relevant	Not relevant
	Dermal	Not relevant	Not relevant	3,5 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	24,58 mg/m <sup>3</sup>	Not relevant
Piperonal CAS: 120-57-0 EC: 204-409-7	Oral	Not relevant	Not relevant	Not relevant	Not relevant
	Dermal	Not relevant	Not relevant	2,5 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	17,6 mg/m <sup>3</sup>	Not relevant
Citral CAS: 5392-40-5 EC: 226-394-6	Oral	Not relevant	Not relevant	Not relevant	Not relevant
	Dermal	Not relevant	Not relevant	1,7 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	9 mg/m <sup>3</sup>	Not relevant
Geraniol CAS: 106-24-1 EC: 203-377-1	Oral	Not relevant	Not relevant	Not relevant	Not relevant
	Dermal	Not relevant	Not relevant	12,5 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	161,6 mg/m <sup>3</sup>	Not relevant
(E)-2-methoxy-4-(prop-1-enyl)phenol CAS: 5932-68-3 EC: 227-678-2	Oral	Not relevant	Not relevant	Not relevant	Not relevant
	Dermal	Not relevant	Not relevant	1,71 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	6 mg/m <sup>3</sup>	Not relevant
[1α(E),2β]-1-(2,6,6-trimethylcyclohex-3-en-1-yl)but-2-en-1-one CAS: 71048-82-3 EC: 275-156-8	Oral	Not relevant	Not relevant	Not relevant	Not relevant
	Dermal	Not relevant	Not relevant	0,4 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	1,5 mg/m <sup>3</sup>	Not relevant

**DNEL (General population):**

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
Benzyl benzoate CAS: 120-51-4 EC: 204-402-9	Oral	78 mg/kg	Not relevant	0,4 mg/kg	Not relevant
	Dermal	Not relevant	Not relevant	1,3 mg/kg	Not relevant
	Inhalation	25 mg/m <sup>3</sup>	Not relevant	1,25 mg/m <sup>3</sup>	Not relevant
Cinnamaldehyde CAS: 104-55-2 EC: 203-213-9	Oral	Not relevant	Not relevant	0,625 mg/kg	Not relevant
	Dermal	Not relevant	Not relevant	0,625 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	1,09 mg/m <sup>3</sup>	Not relevant
Eugenol CAS: 97-53-0 EC: 202-589-1	Oral	Not relevant	Not relevant	3 mg/kg	Not relevant
	Dermal	Not relevant	Not relevant	3 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	5,22 mg/m <sup>3</sup>	Not relevant
3-ethoxy-4-hydroxybenzaldehyde CAS: 121-32-4 EC: 204-464-7	Oral	Not relevant	Not relevant	2,5 mg/kg	Not relevant
	Dermal	Not relevant	Not relevant	2,5 mg/kg	Not relevant
	Inhalation	17,5 mg/m <sup>3</sup>	Not relevant	8,75 mg/m <sup>3</sup>	Not relevant
(r)-p-mentha-1,8-diene CAS: 5989-27-5 EC: 227-813-5	Oral	Not relevant	Not relevant	4,8 mg/kg	Not relevant
	Dermal	Not relevant	Not relevant	4,8 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	16,6 mg/m <sup>3</sup>	Not relevant
Coumarin CAS: 91-64-5 EC: 202-086-7	Oral	Not relevant	Not relevant	0,39 mg/kg	Not relevant
	Dermal	Not relevant	Not relevant	0,39 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	1,69 mg/m <sup>3</sup>	Not relevant

- CONTINUED ON NEXT PAGE -

**APPLE PUMPKIN**

Date of compilation: 25/11/2024 Version: 1

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)**

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
3-phenylpropan-1-ol CAS: 122-97-4 EC: 204-587-6	Oral	Not relevant	Not relevant	2,5 mg/kg	Not relevant
	Dermal	Not relevant	Not relevant	5 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	3,7 mg/m <sup>3</sup>	Not relevant
(2E)-2-methyl-3-phenylacrylaldehyde CAS: 15174-47-7 EC: 701-219-0	Oral	Not relevant	Not relevant	1,1 mg/kg	Not relevant
	Dermal	Not relevant	Not relevant	1,11 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	3,27 mg/m <sup>3</sup>	3,27 mg/m <sup>3</sup>
2-ethyl-3-hydroxy-4-pyrone CAS: 4940-11-8 EC: 225-582-5	Oral	Not relevant	Not relevant	2 mg/kg	Not relevant
	Dermal	Not relevant	Not relevant	2 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	3,48 mg/m <sup>3</sup>	Not relevant
2,6-di-tert-butyl-p-cresol CAS: 128-37-0 EC: 204-881-4	Oral	Not relevant	Not relevant	Not relevant	Not relevant
	Dermal	Not relevant	Not relevant	0,25 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	0,86 mg/m <sup>3</sup>	Not relevant
Allyl hexanoate CAS: 123-68-2 EC: 204-642-4	Oral	Not relevant	Not relevant	2,1 mg/kg	Not relevant
	Dermal	Not relevant	Not relevant	2,1 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	3,7 mg/m <sup>3</sup>	Not relevant
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	Not relevant	Not relevant	2,3 mg/kg	Not relevant
	Dermal	Not relevant	Not relevant	22 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	4 mg/m <sup>3</sup>	Not relevant
Linalool CAS: 78-70-6 EC: 201-134-4	Oral	Not relevant	Not relevant	2,49 mg/kg	Not relevant
	Dermal	Not relevant	Not relevant	1,25 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	4,33 mg/m <sup>3</sup>	Not relevant
Piperonal CAS: 120-57-0 EC: 204-409-7	Oral	Not relevant	Not relevant	1,25 mg/kg	Not relevant
	Dermal	Not relevant	Not relevant	1,25 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	4,3 mg/m <sup>3</sup>	Not relevant
Citral CAS: 5392-40-5 EC: 226-394-6	Oral	Not relevant	Not relevant	0,6 mg/kg	Not relevant
	Dermal	Not relevant	Not relevant	1 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	2,7 mg/m <sup>3</sup>	Not relevant
Geraniol CAS: 106-24-1 EC: 203-377-1	Oral	Not relevant	Not relevant	13,75 mg/kg	Not relevant
	Dermal	Not relevant	Not relevant	7,5 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	47,8 mg/m <sup>3</sup>	Not relevant
(E)-2-methoxy-4-(prop-1-enyl)phenol CAS: 5932-68-3 EC: 227-678-2	Oral	Not relevant	Not relevant	0,85 mg/kg	Not relevant
	Dermal	Not relevant	Not relevant	0,85 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	1,5 mg/m <sup>3</sup>	Not relevant
[1α(E),2β]-1-(2,6,6-trimethylcyclohex-3-en-1-yl)but-2-en-1-one CAS: 71048-82-3 EC: 275-156-8	Oral	Not relevant	Not relevant	0,25 mg/kg	Not relevant
	Dermal	Not relevant	Not relevant	0,25 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	0,43 mg/m <sup>3</sup>	Not relevant

**PNEC:**

Identification					
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	Not relevant	Sediment (Fresh water)	10,66 mg/kg	
	Oral	Not relevant	Sediment (Marine water)	1,07 mg/kg	
Cinnamaldehyde CAS: 104-55-2 EC: 203-213-9	STP	7,1 mg/L	Fresh water	0,008 mg/L	
	Soil	0,0156 mg/kg	Marine water	0,0008 mg/L	
	Intermittent	0,0321 mg/L	Sediment (Fresh water)	0,101 mg/kg	
	Oral	Not relevant	Sediment (Marine water)	0,0101 mg/kg	

- CONTINUED ON NEXT PAGE -



**APPLE PUMPKIN**

Date of compilation: 25/11/2024 Version: 1

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)**

Identification				
Eugenol CAS: 97-53-0 EC: 202-589-1	STP	Not relevant	Fresh water	0,00113 mg/L
	Soil	0,015 mg/kg	Marine water	0,000113 mg/L
	Intermittent	0,0113 mg/L	Sediment (Fresh water)	0,081 mg/kg
	Oral	Not relevant	Sediment (Marine water)	0,008 mg/kg
cis-2-tert-butylcyclohexyl acetate CAS: 20298-69-5 EC: 243-718-1	STP	10 mg/L	Fresh water	0,057 mg/L
	Soil	4,4 mg/kg	Marine water	0,006 mg/L
	Intermittent	Not relevant	Sediment (Fresh water)	7,62 mg/kg
	Oral	Not relevant	Sediment (Marine water)	0,762 mg/kg
3-ethoxy-4-hydroxybenzaldehyde CAS: 121-32-4 EC: 204-464-7	STP	10 mg/L	Fresh water	0,118 mg/L
	Soil	2,923 mg/kg	Marine water	0,012 mg/L
	Intermittent	Not relevant	Sediment (Fresh water)	15 mg/kg
	Oral	Not relevant	Sediment (Marine water)	1,5 mg/kg
(r)-p-mentha-1,8-diene 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	Not relevant	Sediment (Fresh water)	3,85 mg/kg
	Oral	0,133 g/kg	Sediment (Marine water)	0,385 mg/kg
Coumarin CAS: 91-64-5 EC: 202-086-7	STP	6,4 mg/L	Fresh water	0,019 mg/L
	Soil	0,018 mg/kg	Marine water	0,0019 mg/L
	Intermittent	0,0142 mg/L	Sediment (Fresh water)	0,15 mg/kg
	Oral	0,0307 g/kg	Sediment (Marine water)	0,015 mg/kg
3-phenylpropan-1-ol CAS: 122-97-4 EC: 204-587-6	STP	3 mg/L	Fresh water	0,061 mg/L
	Soil	0,067 mg/kg	Marine water	0,006 mg/L
	Intermittent	0,61 mg/L	Sediment (Fresh water)	0,513 mg/kg
	Oral	Not relevant	Sediment (Marine water)	0,051 mg/kg
(2E)-2-methyl-3-phenylacrylaldehyde CAS: 15174-47-7 EC: 701-219-0	STP	3,66 mg/L	Fresh water	0,001 mg/L
	Soil	0,007 mg/kg	Marine water	0 mg/L
	Intermittent	0,012 mg/L	Sediment (Fresh water)	0,04 mg/kg
	Oral	Not relevant	Sediment (Marine water)	0,004 mg/kg
Vanillin CAS: 121-33-5 EC: 204-465-2	STP	10 mg/L	Fresh water	0,118 mg/L
	Soil	11,54 mg/kg	Marine water	0,012 mg/L
	Intermittent	Not relevant	Sediment (Fresh water)	58,22 mg/kg
	Oral	Not relevant	Sediment (Marine water)	5,822 mg/kg
2-ethyl-3-hydroxy-4-pyrone CAS: 4940-11-8 EC: 225-582-5	STP	1,55 mg/L	Fresh water	0,0072 mg/L
	Soil	0,049 mg/kg	Marine water	0,00072 mg/L
	Intermittent	Not relevant	Sediment (Fresh water)	0,269 mg/kg
	Oral	Not relevant	Sediment (Marine water)	0,027 mg/kg
2,6-di-tert-butyl-p-cresol CAS: 128-37-0 EC: 204-881-4	STP	0,17 mg/L	Fresh water	0,000199 mg/L
	Soil	0,04769 mg/kg	Marine water	0,00002 mg/L
	Intermittent	0,00199 mg/L	Sediment (Fresh water)	0,0996 mg/kg
	Oral	0,00833 g/kg	Sediment (Marine water)	0,00996 mg/kg
Allyl hexanoate CAS: 123-68-2 EC: 204-642-4	STP	10 mg/L	Fresh water	0,000117 mg/L
	Soil	0,000825 mg/kg	Marine water	0,000012 mg/L
	Intermittent	0,00117 mg/L	Sediment (Fresh water)	0,00446 mg/kg
	Oral	0,04756 g/kg	Sediment (Marine water)	0,000446 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	Not relevant	Sediment (Fresh water)	2 mg/kg
	Oral	20,4 g/kg	Sediment (Marine water)	0,394 mg/kg
Linalool CAS: 78-70-6 EC: 201-134-4	STP	10 mg/L	Fresh water	0,2 mg/L
	Soil	0,327 mg/kg	Marine water	0,02 mg/L
	Intermittent	2 mg/L	Sediment (Fresh water)	2,22 mg/kg
	Oral	0,0078 g/kg	Sediment (Marine water)	0,222 mg/kg

- CONTINUED ON NEXT PAGE -

**APPLE PUMPKIN**

Date of compilation: 25/11/2024 Version: 1

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)**



Identification				
Piperonal CAS: 120-57-0 EC: 204-409-7	STP	10 mg/L	Fresh water	0,0025 mg/L
	Soil	0,00084 mg/kg	Marine water	0,00025 mg/L
	Intermittent	0,025 mg/L	Sediment (Fresh water)	0,0119 mg/kg
	Oral	Not relevant	Sediment (Marine water)	0,0012 mg/kg
Citral CAS: 5392-40-5 EC: 226-394-6	STP	1,6 mg/L	Fresh water	0,007 mg/L
	Soil	0,021 mg/kg	Marine water	0,001 mg/L
	Intermittent	0,068 mg/L	Sediment (Fresh water)	0,125 mg/kg
	Oral	Not relevant	Sediment (Marine water)	0,013 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	Not relevant	Sediment (Marine water)	0,011 mg/kg
(E)-2-methoxy-4-(prop-1-enyl)phenol CAS: 5932-68-3 EC: 227-678-2	STP	10 mg/L	Fresh water	0,0047 mg/L
	Soil	0,007 mg/kg	Marine water	0,00047 mg/L
	Intermittent	0,047 mg/L	Sediment (Fresh water)	0,047 mg/kg
	Oral	0,0415 g/kg	Sediment (Marine water)	0,005 mg/kg
[1α(E),2β]-1-(2,6,6-trimethylcyclohex-3-en-1-yl)but-2-en-1-one CAS: 71048-82-3 EC: 275-156-8	STP	2,41 mg/L	Fresh water	0,007 mg/L
	Soil	0,177 mg/kg	Marine water	0,0007 mg/L
	Intermittent	0,0035 mg/L	Sediment (Fresh water)	0,906 mg/kg
	Oral	0,000074 g/kg	Sediment (Marine water)	0,0906 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**



Pictogram	PPE	Labelling	CEN Standard	Remarks
 Mandatory respiratory tract protection	Filter mask for gases and vapours		EN 405:2002+A1:2010	Replace when there is a taste or smell of the contaminant inside the face mask. If the contaminant comes with warnings it is recommended to use isolation equipment.

**C.- Specific protection for the hands**

Pictogram	PPE	Labelling	CEN Standard	Remarks
 Mandatory hand protection	Chemical protective gloves (Material: Nitrile, Breakthrough time: > 30 min, Thickness: 0.4 mm)		EN ISO 21420:2020	Replace the gloves at any sign of deterioration.

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**

- CONTINUED ON NEXT PAGE -



**APPLE PUMPKIN**

Date of compilation: 25/11/2024 Version: 1

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)**

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 20347:2022	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 20345:2022 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):	5,3 % weight
V.O.C. density at 20 °C:	Not relevant
Average carbon number:	9,55
Average molecular weight:	146,97 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:	Liquid
Appearance:	Not available
Colour:	Light yellow , Colourless
Odour:	Characteristic
Odour threshold:	Not relevant *

**Volatility:**

Boiling point at atmospheric pressure:	>40 °C
Vapour pressure at 20 °C:	Not relevant *
Vapour pressure at 50 °C:	Not relevant *
Evaporation rate at 20 °C:	Not relevant *

**Product description:**

Density at 20 °C:	Not relevant *
Relative density at 20 °C:	1,039 – 1,049
Dynamic viscosity at 20 °C:	Not relevant *
Kinematic viscosity at 20 °C:	Not relevant *
Kinematic viscosity at 40 °C:	Not relevant *

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

- CONTINUED ON NEXT PAGE -

**APPLE PUMPKIN**

Date of compilation: 25/11/2024 Version: 1

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)**

Concentration:	Not relevant *
pH:	Not relevant *
Vapour density at 20 °C:	Not relevant *
Partition coefficient n-octanol/water 20 °C:	Not relevant *
Solubility in water at 20 °C:	Not relevant *
Solubility properties:	Not relevant *
Decomposition temperature:	Not relevant *
Melting point/freezing point:	Not relevant *

**Flammability:**

Flash Point:	84 °C
Flammability (solid, gas):	Not relevant *
Autoignition temperature:	>200 °C
Lower flammability limit:	Not relevant *
Upper flammability limit:	Not relevant *

**Particle characteristics:**

Median equivalent diameter:	Non-applicable
-----------------------------	----------------

**9.2 Other information:**

**Information with regard to physical hazard classes:**

Explosive properties:	Not relevant *
Oxidising properties:	Not relevant *
Corrosive to metals:	Not relevant *
Heat of combustion:	Not relevant *
Aerosols-total percentage (by mass) of flammable components:	Not relevant *

**Other safety characteristics:**

Surface tension at 20 °C:	Not relevant *
Refraction index:	Not relevant *

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

**SECTION 10: STABILITY AND REACTIVITY**

**10.1 Reactivity:**

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

**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:**

- CONTINUED ON NEXT PAGE -

**APPLE PUMPKIN**

Date of compilation: 25/11/2024 Version: 1

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

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 (CO<sub>2</sub>), 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: The consumption of a considerable dose can cause irritation in the throat, abdominal pain, nausea and vomiting.

B- Inhalation (acute effect):

- Acute toxicity : Based on available data, the classification criteria are not met. However, it contains substances classified as hazardous for inhalation. 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.

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

- Contact with the skin: Produces skin inflammation.
- Contact with the eyes: Produces eye damage after contact.

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: Eugenol (3); (r)-p-mentha-1,8-diene (3); Coumarin (3); 2,6-di-tert-butyl-p-cresol (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. However, it does 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.

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

Based on available data, the classification criteria are not met. However, it contains substances classified as hazardous for inhalation. 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:**

Not relevant

**Specific toxicology information on the substances:**

- CONTINUED ON NEXT PAGE -

**APPLE PUMPKIN**

Date of compilation: 25/11/2024 Version: 1

**SECTION 11: TOXICOLOGICAL INFORMATION (continued)**

Identification	Acute toxicity		Genus
Benzyl benzoate CAS: 120-51-4 EC: 204-402-9	LD50 oral	500 mg/kg (ATEi)	Rat
	LD50 dermal	>2000 mg/kg	
	LC50 inhalation	>20 mg/L	
Cinnamaldehyde CAS: 104-55-2 EC: 203-213-9	LD50 oral	2220 mg/kg	Rat
	LD50 dermal	1260 mg/kg (ATEi)	Rabbit
	LC50 inhalation	68,88 mg/L (4 h)	Rat
Eugenol CAS: 97-53-0 EC: 202-589-1	LD50 oral	2300 mg/kg	Rat
	LD50 dermal	>5000 mg/kg	
	LC50 inhalation	>20 mg/L	
cis-2-tert-butylcyclohexyl acetate CAS: 20298-69-5 EC: 243-718-1	LD50 oral	4600 mg/kg	Rat
	LD50 dermal	>2000 mg/kg	
	LC50 inhalation	>20 mg/L	
3-ethoxy-4-hydroxybenzaldehyde CAS: 121-32-4 EC: 204-464-7	LD50 oral	3000 mg/kg	Rat
	LD50 dermal	>2000 mg/kg	
	LC50 inhalation	>5 mg/L	
(r)-p-mentha-1,8-diene CAS: 5989-27-5 EC: 227-813-5	LD50 oral	>2000 mg/kg	
	LD50 dermal	>2000 mg/kg	
	LC50 inhalation	>20 mg/L	
Undecan-4-olide CAS: 104-67-6 EC: 203-225-4	LD50 oral	18500 mg/kg	Rat
	LD50 dermal	>2000 mg/kg	
	LC50 inhalation	>20 mg/L	
Coumarin CAS: 91-64-5 EC: 202-086-7	LD50 oral	293 mg/kg (ATEi)	Rat
	LD50 dermal	293 mg/kg (ATEi)	Rat
	LC50 inhalation	>5 mg/L	
3-phenylpropan-1-ol CAS: 122-97-4 EC: 204-587-6	LD50 oral	2250 mg/kg	Rat
	LD50 dermal	>5000 mg/kg	Rabbit
	LC50 inhalation	>20 mg/L	
(2E)-2-methyl-3-phenylacrylaldehyde CAS: 15174-47-7 EC: 701-219-0	LD50 oral	2050 mg/kg	Rat
	LD50 dermal	>5000 mg/kg	Rabbit
	LC50 inhalation	>20 mg/L	
Vanillin CAS: 121-33-5 EC: 204-465-2	LD50 oral	3500 mg/kg	Rat
	LD50 dermal	>2000 mg/kg	
	LC50 inhalation	>5 mg/L	
2-ethyl-3-hydroxy-4-pyrone CAS: 4940-11-8 EC: 225-582-5	LD50 oral	1200 mg/kg (ATEi)	Rat
	LD50 dermal	>2000 mg/kg	
	LC50 inhalation	>5 mg/L	
2,6-di-tert-butyl-p-cresol CAS: 128-37-0 EC: 204-881-4	LD50 oral	10000 mg/kg	Rat
	LD50 dermal	>2000 mg/kg	
	LC50 inhalation	>5 mg/L	
Allyl hexanoate CAS: 123-68-2 EC: 204-642-4	LD50 oral	220 mg/kg (ATEi)	
	LD50 dermal	300 mg/kg (ATEi)	
	LC50 inhalation	3 mg/L (ATEi)	
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	LD50 oral	>2000 mg/kg	
	LD50 dermal	>2000 mg/kg	
	LC50 inhalation	>20 mg/L	
Linalool CAS: 78-70-6 EC: 201-134-4	LD50 oral	3000 mg/kg	Rat
	LD50 dermal	5610 mg/kg	Rabbit
	LC50 inhalation	>20 mg/L	
2,4-dimethylcyclohex-3-ene-1-carbaldehyde CAS: 68039-49-6 EC: 268-264-1	LD50 oral	2500 mg/kg	
	LD50 dermal	>2000 mg/kg	
	LC50 inhalation	>20 mg/L	

- CONTINUED ON NEXT PAGE -

**APPLE PUMPKIN**

Date of compilation: 25/11/2024 Version: 1

**SECTION 11: TOXICOLOGICAL INFORMATION (continued)**

Identification	Acute toxicity		Genus
Piperonal CAS: 120-57-0 EC: 204-409-7	LD50 oral	2700 mg/kg	Rat
	LD50 dermal	>2000 mg/kg	
	LC50 inhalation		
Acetyl eugenol CAS: 93-28-7 EC: 202-235-6	LD50 oral	1670 mg/kg	Rat
	LD50 dermal	>2000 mg/kg	
	LC50 inhalation	>5 mg/L	
Citral CAS: 5392-40-5 EC: 226-394-6	LD50 oral	4950 mg/kg	Rat
	LD50 dermal	2250 mg/kg	Rabbit
	LC50 inhalation	>20 mg/L	
Geraniol CAS: 106-24-1 EC: 203-377-1	LD50 oral	4200 mg/kg	Rat
	LD50 dermal	5100 mg/kg	Rabbit
	LC50 inhalation	>20 mg/L	
Caryophyllene CAS: 87-44-5 EC: 201-746-1	LD50 oral	>5000 mg/kg	Rat
	LD50 dermal	>2000 mg/kg	
	LC50 inhalation	>20 mg/L	
(E)-2-methoxy-4-(prop-1-enyl)phenol CAS: 5932-68-3 EC: 227-678-2	LD50 oral	450 mg/kg	Rat
	LD50 dermal	1911 mg/kg	Rat
	LC50 inhalation	11 mg/L (4 h)	
[1 $\alpha$ (E),2 $\beta$ ]-1-(2,6,6-trimethylcyclohex-3-en-1-yl)but-2-en-1-one CAS: 71048-82-3 EC: 275-156-8	LD50 oral	1400 mg/kg	Rat
	LD50 dermal	>2000 mg/kg	
	LC50 inhalation	>20 mg/L	

**11.2 Information on other hazards:**

**Endocrine disrupting properties**

Endocrine-disrupting properties: The product does not meet the criteria.

**Other information**

Not relevant

**SECTION 12: ECOLOGICAL INFORMATION**

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

Toxic to aquatic life with long lasting effects.

**12.1 Toxicity:**

**Acute toxicity:**

Identification	Concentration	Species	Genus
Benzyl benzoate CAS: 120-51-4 EC: 204-402-9	LC50	>1 - 10 mg/L (96 h)	Fish
	EC50	>1 - 10 mg/L (48 h)	Crustacean
	EC50	>1 - 10 mg/L (72 h)	Algae
Eugenol CAS: 97-53-0 EC: 202-589-1	LC50	60,8 mg/L (96 h)	Oncorhynchus mykiss
	EC50	Not relevant	
	EC50	Not relevant	
cis-2-tert-butylcyclohexyl acetate CAS: 20298-69-5 EC: 243-718-1	LC50	5,6 mg/L (96 h)	Brachydanio rerio
	EC50	17 mg/L (48 h)	Daphnia magna
	EC50	4,2 mg/L (72 h)	Desmodesmus subspicatus
(r)-p-mentha-1,8-diene CAS: 5989-27-5 EC: 227-813-5	LC50	>0.1 - 1 mg/L (96 h)	Fish
	EC50	>0.1 - 1 mg/L (48 h)	Crustacean
	EC50	>0.1 - 1 mg/L (72 h)	Algae
Undecan-4-olide CAS: 104-67-6 EC: 203-225-4	LC50	>10 - 100 mg/L (96 h)	Fish
	EC50	>10 - 100 mg/L (48 h)	Crustacean
	EC50	>10 - 100 mg/L (72 h)	Algae

- CONTINUED ON NEXT PAGE -

**APPLE PUMPKIN**

Date of compilation: 25/11/2024 Version: 1

**SECTION 12: ECOLOGICAL INFORMATION (continued)**

Identification	Concentration		Species	Genus
Coumarin CAS: 91-64-5 EC: 202-086-7	LC50	1,3 mg/L (96 h)	QSAR	Fish
	EC50	8 mg/L (48 h)	QSAR	Fish
	EC50	1,4 mg/L (96 h)	QSAR	Fish
(2E)-2-methyl-3-phenylacrylaldehyde CAS: 15174-47-7 EC: 701-219-0	LC50	1,2 mg/L (96 h)	Pimephales promelas	Fish
	EC50	9,9 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	0,13 mg/L (72 h)	Desmodesmus subspicatus	Algae
Vanillin CAS: 121-33-5 EC: 204-465-2	LC50	57 mg/L (96 h)	Pimephales promelas	Fish
	EC50	48,1 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	120 mg/L (72 h)	Pseudokirchneriella subcapitata	Algae
2,6-di-tert-butyl-p-cresol CAS: 128-37-0 EC: 204-881-4	LC50	0,57 mg/L (96 h)	Brachydanio rerio	Fish
	EC50	0,61 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	Not relevant		
Allyl hexanoate CAS: 123-68-2 EC: 204-642-4	LC50	>0.1 - 1 mg/L (96 h)		Fish
	EC50	>0.1 - 1 mg/L (48 h)		Crustacean
	EC50	>0.1 - 1 mg/L (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 mg/L (96 h)		Fish
	EC50	>1 - 10 mg/L (48 h)		Crustacean
	EC50	>1 - 10 mg/L (72 h)		Algae
Citral CAS: 5392-40-5 EC: 226-394-6	LC50	6,1 mg/L (24 h)	Oryzias latipes	Fish
	EC50	11 mg/L (24 h)	Daphnia magna	Crustacean
	EC50	16 mg/L (72 h)	Scenedesmus subspicatus	Algae
[1 $\alpha$ (E),2 $\beta$ ]-1-(2,6,6-trimethylcyclohex-3-en-1-yl)but-2-en-1-one CAS: 71048-82-3 EC: 275-156-8	LC50	0,97 mg/L (96 h)	Oryzias latipes	Fish
	EC50	Not relevant		
	EC50	2,5 mg/L (72 h)	Pseudokirchneriella subcapitata	Algae

**Chronic toxicity:**

Identification	Concentration		Species	Genus
Cinnamaldehyde CAS: 104-55-2 EC: 203-213-9	NOEC	15,159 mg/L	N/A	Fish
	NOEC	Not relevant		
cis-2-tert-butylcyclohexyl acetate CAS: 20298-69-5 EC: 243-718-1	NOEC	0,8 mg/L	Pimephales promelas	Fish
	NOEC	Not relevant		
2,6-di-tert-butyl-p-cresol CAS: 128-37-0 EC: 204-881-4	NOEC	0,053 mg/L	Oryzias latipes	Fish
	NOEC	0,069 mg/L	Daphnia magna	Crustacean
[1 $\alpha$ (E),2 $\beta$ ]-1-(2,6,6-trimethylcyclohex-3-en-1-yl)but-2-en-1-one CAS: 71048-82-3 EC: 275-156-8	NOEC	Not relevant		
	NOEC	0,35 mg/L	Daphnia magna	Crustacean

**12.2 Persistence and degradability:**

**Substance-specific information:**

Identification	Degradability		Biodegradability	
cis-2-tert-butylcyclohexyl acetate CAS: 20298-69-5 EC: 243-718-1	BOD5	Not relevant	Concentration	100 mg/L
	COD	Not relevant	Period	28 days
	BOD5/COD	Not relevant	% Biodegradable	43 %
Coumarin CAS: 91-64-5 EC: 202-086-7	BOD5	Not relevant	Concentration	100 mg/L
	COD	Not relevant	Period	28 days
	BOD5/COD	Not relevant	% Biodegradable	100 %
3-phenylpropan-1-ol CAS: 122-97-4 EC: 204-587-6	BOD5	Not relevant	Concentration	30 mg/L
	COD	Not relevant	Period	28 days
	BOD5/COD	Not relevant	% Biodegradable	83 %

- CONTINUED ON NEXT PAGE -



**APPLE PUMPKIN**

Date of compilation: 25/11/2024 Version: 1

**SECTION 12: ECOLOGICAL INFORMATION (continued)**

Identification	Degradability		Biodegradability	
(2E)-2-methyl-3-phenylacrylaldehyde CAS: 15174-47-7 EC: 701-219-0	BOD5	Not relevant	Concentration	Not relevant
	COD	Not relevant	Period	28 days
	BOD5/COD	Not relevant	% Biodegradable	97 %
Vanillin CAS: 121-33-5 EC: 204-465-2	BOD5	Not relevant	Concentration	100 mg/L
	COD	Not relevant	Period	14 days
	BOD5/COD	Not relevant	% Biodegradable	97 %
2,6-di-tert-butyl-p-cresol CAS: 128-37-0 EC: 204-881-4	BOD5	Not relevant	Concentration	50 mg/L
	COD	Not relevant	Period	28 days
	BOD5/COD	Not relevant	% Biodegradable	4,5 %
Linalool CAS: 78-70-6 EC: 201-134-4	BOD5	Not relevant	Concentration	100 mg/L
	COD	Not relevant	Period	28 days
	BOD5/COD	Not relevant	% Biodegradable	90 %
Citral CAS: 5392-40-5 EC: 226-394-6	BOD5	0,56 g O2/g	Concentration	100 mg/L
	COD	1,99 g O2/g	Period	28 days
	BOD5/COD	0,28	% Biodegradable	92 %
Geraniol CAS: 106-24-1 EC: 203-377-1	BOD5	Not relevant	Concentration	100 mg/L
	COD	Not relevant	Period	21 days
	BOD5/COD	Not relevant	% Biodegradable	70 %
(E)-2-methoxy-4-(prop-1-enyl)phenol CAS: 5932-68-3 EC: 227-678-2	BOD5	Not relevant	Concentration	100 mg/L
	COD	Not relevant	Period	28 days
	BOD5/COD	Not relevant	% Biodegradable	79 %
[1α(E),2β]-1-(2,6,6-trimethylcyclohex-3-en-1-yl)but-2-en-1-one CAS: 71048-82-3 EC: 275-156-8	BOD5	Not relevant	Concentration	100 mg/L
	COD	Not relevant	Period	28 days
	BOD5/COD	Not relevant	% Biodegradable	16 %

**12.3 Bioaccumulative potential:**

**Substance-specific information:**

Identification	Bioaccumulation potential	
Cinnamaldehyde CAS: 104-55-2 EC: 203-213-9	BCF	8
	Pow Log	1.9
	Potential	Low
Eugenol CAS: 97-53-0 EC: 202-589-1	BCF	31
	Pow Log	2.27
	Potential	Moderate
cis-2-tert-butylcyclohexyl acetate CAS: 20298-69-5 EC: 243-718-1	BCF	200
	Pow Log	4.7
	Potential	High
(2E)-2-methyl-3-phenylacrylaldehyde CAS: 15174-47-7 EC: 701-219-0	BCF	
	Pow Log	2.47
	Potential	
Vanillin CAS: 121-33-5 EC: 204-465-2	BCF	6
	Pow Log	1.37
	Potential	Low
2,6-di-tert-butyl-p-cresol CAS: 128-37-0 EC: 204-881-4	BCF	1365
	Pow Log	5.1
	Potential	Very High
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

- CONTINUED ON NEXT PAGE -

**APPLE PUMPKIN**

Date of compilation: 25/11/2024 Version: 1

**SECTION 12: ECOLOGICAL INFORMATION (continued)**

Identification	Bioaccumulation potential	
Linalool CAS: 78-70-6 EC: 201-134-4	BCF	
	Pow Log	2.97
	Potential	
Citral CAS: 5392-40-5 EC: 226-394-6	BCF	10
	Pow Log	3.45
	Potential	Low
Geraniol CAS: 106-24-1 EC: 203-377-1	BCF	110
	Pow Log	3.56
	Potential	High
(E)-2-methoxy-4-(prop-1-enyl)phenol CAS: 5932-68-3 EC: 227-678-2	BCF	
	Pow Log	2.1
	Potential	
[1 $\alpha$ (E),2 $\beta$ ]-1-(2,6,6-trimethylcyclohex-3-en-1-yl)but-2-en-1-one CAS: 71048-82-3 EC: 275-156-8	BCF	81
	Pow Log	4.2
	Potential	Moderate

**12.4 Mobility in soil:**

Identification	Absorption/desorption		Volatility	
Benzyl benzoate CAS: 120-51-4 EC: 204-402-9	Koc	Not relevant	Henry	Not relevant
	Conclusion	Not relevant	Dry soil	Not relevant
	Surface tension	4,626E-2 N/m (25 °C)	Moist soil	Not relevant
Cinnamaldehyde CAS: 104-55-2 EC: 203-213-9	Koc	37	Henry	3,546E-1 Pa·m <sup>3</sup> /mol
	Conclusion	Very High	Dry soil	Yes
	Surface tension	Not relevant	Moist soil	Yes
cis-2-tert-butylcyclohexyl acetate CAS: 20298-69-5 EC: 243-718-1	Koc	1300	Henry	Not relevant
	Conclusion	Low	Dry soil	Not relevant
	Surface tension	Not relevant	Moist soil	Not relevant
3-ethoxy-4-hydroxybenzaldehyde CAS: 121-32-4 EC: 204-464-7	Koc	Not relevant	Henry	Not relevant
	Conclusion	Not relevant	Dry soil	Not relevant
	Surface tension	1,87E-2 N/m (276,18 °C)	Moist soil	Not relevant
3-phenylpropan-1-ol CAS: 122-97-4 EC: 204-587-6	Koc	Not relevant	Henry	4,36E-1 Pa·m <sup>3</sup> /mol
	Conclusion	Not relevant	Dry soil	Not relevant
	Surface tension	Not relevant	Moist soil	Not relevant
(2E)-2-methyl-3-phenylacrylaldehyde CAS: 15174-47-7 EC: 701-219-0	Koc	115.5	Henry	Not relevant
	Conclusion	High	Dry soil	Not relevant
	Surface tension	Not relevant	Moist soil	Not relevant
Vanillin CAS: 121-33-5 EC: 204-465-2	Koc	130	Henry	2,128E-4 Pa·m <sup>3</sup> /mol
	Conclusion	Very High	Dry soil	Not relevant
	Surface tension	1,622E-2 N/m (292,85 °C)	Moist soil	Not relevant
2,6-di-tert-butyl-p-cresol CAS: 128-37-0 EC: 204-881-4	Koc	8183	Henry	3,42E-1 Pa·m <sup>3</sup> /mol
	Conclusion	Not relevant	Dry soil	Yes
	Surface tension	1,255E-2 N/m (258,85 °C)	Moist soil	Yes
[1 $\alpha$ (E),2 $\beta$ ]-1-(2,6,6-trimethylcyclohex-3-en-1-yl)but-2-en-1-one CAS: 71048-82-3 EC: 275-156-8	Koc	1260	Henry	Not relevant
	Conclusion	Low	Dry soil	Not relevant
	Surface tension	Not relevant	Moist soil	Not relevant

**12.5 Results of PBT and vPvB assessment:**

Product does not meet PBT/vPvB criteria

**12.6 Endocrine disrupting properties:**

Endocrine-disrupting properties: The product does not meet the criteria.

- CONTINUED ON NEXT PAGE -

**APPLE PUMPKIN**

Date of compilation: 25/11/2024      Version: 1

**SECTION 12: ECOLOGICAL INFORMATION (continued)**

**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)
	It is not possible to assign a specific code, as it depends on the intended use by the user	Hazardous

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

HP14 Ecotoxic, HP6 Acute Toxicity, HP13 Sensitising, HP4 Irritant — skin irritation and eye damage

**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-hazardous 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 2023 and RID 2023:



- 14.1 UN number or ID number:** UN3082
- 14.2 UN proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Benzyl benzoate)
- 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 L
- 14.7 Maritime transport in bulk according to IMO instruments:** Not relevant

**Transport of dangerous goods by sea:**

With regard to IMDG 41-22:

- CONTINUED ON NEXT PAGE -

**APPLE PUMPKIN**

Date of compilation: 25/11/2024 Version: 1

**SECTION 14: TRANSPORT INFORMATION (continued)**



- 14.1 UN number or ID number:** UN3082
- 14.2 UN proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Benzyl benzoate)
- 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, 969, 274  
EmS Codes: F-A, S-F  
Physico-Chemical properties: see section 9  
Limited quantities: 5 L  
Segregation group: Not relevant
- 14.7 Maritime transport in bulk according to IMO instruments:** Not relevant

**Transport of dangerous goods by air:**

With regard to IATA/ICAO 2024:



- 14.1 UN number or ID number:** UN3082
- 14.2 UN proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Benzyl benzoate)
- 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:** Not relevant

**SECTION 15: REGULATORY INFORMATION**

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

- Article 95, REGULATION (EU) No 528/2012: *Cinnamaldehyde (104-55-2) - PT: (2) ; Geraniol (106-24-1) - PT: (18,19)*
- Candidate substances for authorisation under the Regulation (EC) No 1907/2006 (REACH): Not relevant
- REGULATION (EU) No 649/2012, in relation to the import and export of hazardous chemical products: Not relevant
- Regulation (EU) No 2024/590, about substances that deplete the ozone layer: Not relevant
- Substances included in Annex XIV of REACH ("Authorisation List") and sunset date: Not relevant

**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 ....):**

Shall not be used in:

- ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,
- tricks and jokes,
- games for one or more participants, or any article intended to be used as such, even with ornamental aspects.

**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 -

**APPLE PUMPKIN**

Date of compilation: 25/11/2024 Version: 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.:**

Not relevant

**Texts of the legislative phrases mentioned in section 2:**

H411: Toxic to aquatic life with long lasting effects.

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

H319: Causes serious eye irritation.

**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. 3: H301+H311+H331 - Toxic if swallowed, in contact with skin or if inhaled.

Acute Tox. 4: H302 - Harmful if swallowed.

Acute Tox. 4: H302+H312+H332 - Harmful if swallowed, in contact with skin or if inhaled.

Acute Tox. 4: H312 - Harmful in contact with skin.

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.

Repr. 2: H361fd - Suspected of damaging fertility. Suspected of damaging the unborn child.

Skin Corr. 1B: H314 - Causes severe skin burns and eye damage.

Skin Irrit. 2: H315 - Causes skin irritation.

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

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

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

STOT SE 3: H335 - May cause respiratory irritation.

**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

- CONTINUED ON NEXT PAGE -

**APPLE PUMPKIN**

Date of compilation: 25/11/2024

Version: 1

DISCLAIMER OF LIABILITY The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable

- END OF SAFETY DATA SHEET -

Date of compilation: 25/11/2024

Version: 1

Page 22/22