


**ESENCIA 17713**  
**ART. COMERCIAL ORANGE BLOSSOM & GINGER****SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

- 1.1 Product identifier:** ESENCIA 17713  
ART. COMERCIAL ORANGE BLOSSOM & GINGER
- Other means of identification:**
- UFI:** 7N37-P061-300F-U8UT
- 1.2 Relevant identified uses of the substance or mixture and uses advised against:**  
Relevant uses (Consumer use): Fragrance  
Relevant uses (Professional users): Fragrance  
Relevant uses (Industrial user): Fragrance  
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:**  
ESSENTIAL COMPOSITIONS, S.L.  
C/ BROSQUIL Nº 2, POL. ALCODAR  
46701 GANDÍA - VALENCIA - ESPAÑA  
Phone: +34 96 111 70 07 - Fax: +34 96 296 59 05  
info@essentialcompositions.com  
www.essentialcompositions.com
- 1.4 Emergency telephone number:** +34 96 111 70 07

**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.  
Acute Tox. 4: Acute toxicity if swallowed, Category 4, H302  
Aquatic Chronic 2: Hazardous to the aquatic environment, long-term hazard, Category 2, H411  
Flam. Liq. 3: Flammable liquids, Category 3, H226  
Skin Irrit. 2: Skin irritation, Category 2, H315  
Skin Sens. 1B: Sensitisation, skin, Category 1B, H317
- 2.2 Label elements:**
- CLP Regulation (EC) No 1272/2008:**
- Warning**
- 
- Hazard statements:**  
Acute Tox. 4: H302 - Harmful if swallowed.  
Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects.  
Flam. Liq. 3: H226 - Flammable liquid and vapour.  
Skin Irrit. 2: H315 - Causes skin irritation.  
Skin Sens. 1B: H317 - May cause an allergic skin reaction.
- Precautionary statements:**  
P101: If medical advice is needed, have product container or label at hand.  
P102: Keep out of reach of children.  
P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P264: Wash thoroughly after handling.  
P280: Wear protective gloves/protective clothing/eye protection/protective footwear.  
P302+P352: IF ON SKIN: Wash with plenty of water.  
P370+P378: In case of fire: Use Foam extinguisher (AB), Dry Chemical Powder (ABC) Fire Extinguisher, Carbon dioxide extinguisher (BC) to extinguish.  
P501: Dispose of contents/container according to the separated collection system used in your municipality.
- Supplementary information:**  
Contains Linalool, Citral, Citronellol, Dimethylcyclohex-3-ene-1-carbaldehyde, Mandarin orange, ext., Eucalyptus maculata citriodora, oil, Citronellyl formate, (E)-1-(2,6,6-trimethyl-2-cyclohexen-1-yl)-2-buten-1-one.

\*\* Changes with regards to the previous version

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**SECTION 2: HAZARDS IDENTIFICATION \*\* (continued)**

**Substances that contribute to the classification**

Ethyl 2,3-epoxy-3-phenylbutyrate; d-limonene; Linalyl acetate; Benzyl benzoate

**UFI:** 7N37-P061-300F-U8UT

**2.3 Other hazards:**

Product does not meet PBT/vPvB criteria

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

\*\* Changes with regards to the previous version

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

**3.1 Substance:**










Not relevant

**3.2 Mixture:**

**Chemical description:** Odoriferous mixture based on natural and/or synthetic ingredients

**Components:**

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

Identification	Chemical name/Classification		Concentration
CAS: 77-83-8 EC: 201-061-8 Index: Not relevant REACH: 01-2119967770-28-XXXX	<b>Ethyl 2,3-epoxy-3-phenylbutyrate<sup>(1)</sup></b>	Self-classified	10 - <15 %
	Regulation 1272/2008 Aquatic Chronic 2: H411; Skin Sens. 1B: H317 - Warning		
CAS: 5989-27-5 EC: 227-813-5 Index: 601-096-00-2 REACH: 01-2119529223-47-XXXX	<b>d-limonene<sup>(1)</sup></b>	ATP ATP17	5 - <10 %
	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. 1B: H317 - Danger		
CAS: 14901-07-6 EC: 238-969-9 Index: Not relevant REACH: 01-2119937833-30-XXXX	<b>4-(2,6,6-trimethylcyclohex-1-ene-1-yl)-but-3-ene-2-one<sup>(1)</sup></b>	Self-classified	5 - <10 %
	Regulation 1272/2008 Aquatic Chronic 2: H411		
CAS: 115-95-7 EC: 204-116-4 Index: Not relevant REACH: 01-2119454789-19-XXXX	<b>Linalyl acetate<sup>(1)</sup></b>	Self-classified	5 - <10 %
	Regulation 1272/2008 Eye Irrit. 2: H319; Skin Irrit. 2: H315; Skin Sens. 1B: H317 - Warning		
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	2,5 - <5 %
	Regulation 1272/2008 Acute Tox. 4: H302; Aquatic Chronic 2: H411 - Warning		
CAS: 142-19-8 EC: 205-527-1 Index: Not relevant REACH: 01-2119488961-23-XXXX	<b>Allyl heptanoate<sup>(1)</sup></b>	Self-classified	2,5 - <5 %
	Regulation 1272/2008 Acute Tox. 3: H301+H311; Aquatic Acute 1: H400; Aquatic Chronic 3: H412 - Danger		
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	<1 %
	Regulation 1272/2008 Eye Irrit. 2: H319; Skin Irrit. 2: H315; Skin Sens. 1B: H317 - Warning		
CAS: 128-37-0 EC: 204-881-4 Index: Not relevant REACH: 01-2119565113-46-XXXX	<b>2,6-di-tert-butyl-p-cresol<sup>(1)</sup></b>	Self-classified	<1 %
	Regulation 1272/2008 Aquatic Acute 1: H400; Aquatic Chronic 1: H410 - 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	<1 %
	Regulation 1272/2008 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

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

Identification	Chemical name/Classification	Concentration
CAS: 106-22-9 EC: 203-375-0 Index: Not relevant REACH: 01-2119453995-23-XXXX	<b>Citronello<sup>(1)</sup></b> Regulation 1272/2008 Eye Irrit. 2: H319; Skin Irrit. 2: H315; Skin Sens. 1B: H317 - Warning	Self-classified <1 %
CAS: 27939-60-2 EC: 248-742-6 Index: Not relevant REACH: 01-2120766006-57-XXXX	<b>Dimethylcyclohex-3-ene-1-carbaldehyde<sup>(1)</sup></b> Regulation 1272/2008 Aquatic Chronic 2: H411; Eye Irrit. 2: H319; Skin Irrit. 2: H315; Skin Sens. 1B: H317 - Warning	Self-classified <1 %
CAS: 84929-38-4 EC: 284-521-0 Index: Not relevant REACH: 01-2120074120-72-XXXX	<b>Mandarin orange, ext.<sup>(1)</sup></b> 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	Self-classified <1 %
CAS: 85203-56-1 EC: 286-249-8 Index: Not relevant REACH: 01-2120741486-50-XXXX	<b>Eucalyptus maculata citriodora, oil<sup>(1)</sup></b> Regulation 1272/2008 Aquatic Chronic 3: H412; Eye Irrit. 2: H319; Skin Irrit. 2: H315; Skin Sens. 1: H317 - Warning	Self-classified <1 %
CAS: 105-85-1 EC: 203-338-9 Index: Not relevant REACH: 01-2120132106-71-XXXX	<b>Citronellyl formate<sup>(1)</sup></b> Regulation 1272/2008 Skin Irrit. 2: H315; Skin Sens. 1B: H317 - Warning	Self-classified <1 %
CAS: 24720-09-0 EC: 246-430-4 Index: Not relevant REACH: 01-2120105799-47-XXXX	<b>(E)-1-(2,6,6-trimethyl-2-cyclohexen-1-yl)-2-buten-1-one<sup>(1)</sup></b> Regulation 1272/2008 Acute Tox. 4: H302; Aquatic Chronic 2: H411; Skin Sens. 1B: H317 - Warning	Self-classified <1 %

<sup>(1)</sup> Substances presenting a health or environmental hazard which meet criteria laid down 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	M-factor
d-limonene CAS: 5989-27-5 EC: 227-813-5	Acute 1 Chronic 1

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:

Identification	Acute toxicity	Genus
Allyl heptanoate CAS: 142-19-8 EC: 205-527-1	LD50 oral	218 mg/kg
	LD50 dermal	810 mg/kg
	LC50 inhalation vapour	Not relevant
Benzyl benzoate CAS: 120-51-4 EC: 204-402-9	LD50 oral	500 mg/kg
	LD50 dermal	Not relevant
	LC50 inhalation vapour	Not relevant
(E)-1-(2,6,6-trimethyl-2-cyclohexen-1-yl)-2-buten-1-one CAS: 24720-09-0 EC: 246-430-4	LD50 oral	1500 mg/kg
	LD50 dermal	Not relevant
	LC50 inhalation vapour	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. However, in case of intoxication symptoms it is recommended to remove the person affected from the area of exposure, provide clean air and keep at rest. Request medical attention if symptoms persist.

**By skin contact:**

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**SECTION 4: FIRST AID MEASURES (continued)**

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:**

Request medical assistance immediately, showing the SDS of this product. Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. In the case of loss of consciousness do not administer anything orally unless supervised by a doctor. Rinse out the mouth and throat, as they may have been affected during ingestion. Keep the person affected at rest.

**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

**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. Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...)

**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:**

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**SECTION 6: ACCIDENTAL RELEASE MEASURES (continued)**

It is recommended:

Prevent the entrance of product in drains, sewers or watercourses. Absorb the spill using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. Collect the product in appropriate containers and manage it according to current legislation.

Spillages in water or sea:

Small spillages:

Contain spillage using barriers or similar equipment. Use suitable absorbents for collection and treat the waste in accordance with current regulations.

Large spillages:

If possible, contain spillage in open water using barriers or similar equipment. If this is not possible, try to control its spread and collect the product with suitable mechanical means. Always consult experts before using dispersants and make sure you have the necessary approvals if they are to be used. Treat the waste according to current regulations.

**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. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

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

Transfer in well ventilated areas, preferably through localized extraction. Fully control sources of ignition (mobile phones, sparks,...) and ventilate during cleaning operations. Avoid the existence of dangerous atmospheres inside containers, applying inertization systems where possible. Transfer at a slow speed to avoid the creation of electrostatic charges. Against the possibility of electrostatic charges: ensure a perfect equipotential connection, always use groundings, do not wear work clothes made of acrylic fibres, preferably wearing cotton clothing and conductive footwear. Comply with the essential security requirements for equipment and systems defined in Directive 2014/34/EC (ATEX 100) and with the minimum requirements for protecting the security and health of workers under the selection criteria of Directive 1999/92/EC (ATEX 137). 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.

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.: 5 °C

Maximum Temp.: 30 °C

Maximum time: 12 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):

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

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

**DNEL (Workers):**

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
Ethyl 2,3-epoxy-3-phenylbutyrate CAS: 77-83-8 EC: 201-061-8	Oral	Not relevant	Not relevant	Not relevant	Not relevant
	Dermal	Not relevant	Not relevant	0,7 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	2,45 mg/m <sup>3</sup>	Not relevant
d-limonene 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
4-(2,6,6-trimethylcyclohex-1-ene-1-yl)-but-3-ene-2-one CAS: 14901-07-6 EC: 238-969-9	Oral	Not relevant	Not relevant	Not relevant	Not relevant
	Dermal	Not relevant	Not relevant	2,191 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	2,498 mg/m <sup>3</sup>	Not relevant
Linalyl acetate CAS: 115-95-7 EC: 204-116-4	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	2,75 mg/m <sup>3</sup>	Not relevant
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
Allyl heptanoate CAS: 142-19-8 EC: 205-527-1	Oral	Not relevant	Not relevant	Not relevant	Not relevant
	Dermal	Not relevant	Not relevant	0,84 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	2,97 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
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
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
Citronellol CAS: 106-22-9 EC: 203-375-0	Oral	Not relevant	Not relevant	Not relevant	Not relevant
	Dermal	Not relevant	Not relevant	327,4 mg/kg	Not relevant
	Inhalation	Not relevant	10 mg/m <sup>3</sup>	161,6 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>
Dimethylcyclohex-3-ene-1-carbaldehyde CAS: 27939-60-2 EC: 248-742-6	Oral	Not relevant	Not relevant	Not relevant	Not relevant
	Dermal	Not relevant	Not relevant	2,1 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	7,3 mg/m <sup>3</sup>	Not relevant
Mandarin orange, ext. CAS: 84929-38-4 EC: 284-521-0	Oral	Not relevant	Not relevant	Not relevant	Not relevant
	Dermal	Not relevant	Not relevant	6,67 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	23,3 mg/m <sup>3</sup>	Not relevant
Eucalyptus maculata citriodora, oil CAS: 85203-56-1 EC: 286-249-8	Oral	Not relevant	Not relevant	Not relevant	Not relevant
	Dermal	Not relevant	Not relevant	13,33 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	7,5 mg/m <sup>3</sup>	Not relevant
Citronellyl formate CAS: 105-85-1 EC: 203-338-9	Oral	Not relevant	Not relevant	Not relevant	Not relevant
	Dermal	Not relevant	Not relevant	1,4 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	4,94 mg/m <sup>3</sup>	Not relevant
(E)-1-(2,6,6-trimethyl-2-cyclohexen-1-yl)-2-buten-1-one CAS: 24720-09-0 EC: 246-430-4	Oral	Not relevant	Not relevant	Not relevant	Not relevant
	Dermal	Not relevant	Not relevant	0,78 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	2,74 mg/m <sup>3</sup>	Not relevant

**DNEL (General population):**

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

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
Ethyl 2,3-epoxy-3-phenylbutyrate	Oral	Not relevant	Not relevant	0,35 mg/kg	Not relevant
CAS: 77-83-8	Dermal	Not relevant	Not relevant	0,35 mg/kg	Not relevant
EC: 201-061-8	Inhalation	Not relevant	Not relevant	0,61 mg/m <sup>3</sup>	Not relevant
d-limonene	Oral	Not relevant	Not relevant	4,8 mg/kg	Not relevant
CAS: 5989-27-5	Dermal	Not relevant	Not relevant	4,8 mg/kg	Not relevant
EC: 227-813-5	Inhalation	Not relevant	Not relevant	16,6 mg/m <sup>3</sup>	Not relevant
4-(2,6,6-trimethylcyclohex-1-ene-1-yl)-but-3-ene-2-one	Oral	Not relevant	Not relevant	4,383 mg/kg	Not relevant
CAS: 14901-07-6	Dermal	Not relevant	Not relevant	0,54 mg/kg	Not relevant
EC: 238-969-9	Inhalation	Not relevant	Not relevant	0,621 mg/m <sup>3</sup>	Not relevant
Linalyl acetate	Oral	Not relevant	Not relevant	0,2 mg/kg	Not relevant
CAS: 115-95-7	Dermal	Not relevant	Not relevant	1,25 mg/kg	Not relevant
EC: 204-116-4	Inhalation	Not relevant	Not relevant	0,68 mg/m <sup>3</sup>	Not relevant
Benzyl benzoate	Oral	78 mg/kg	Not relevant	0,4 mg/kg	Not relevant
CAS: 120-51-4	Dermal	Not relevant	Not relevant	1,3 mg/kg	Not relevant
EC: 204-402-9	Inhalation	25 mg/m <sup>3</sup>	Not relevant	1,25 mg/m <sup>3</sup>	Not relevant
Allyl heptanoate	Oral	Not relevant	Not relevant	0,42 mg/kg	Not relevant
CAS: 142-19-8	Dermal	Not relevant	Not relevant	0,42 mg/kg	Not relevant
EC: 205-527-1	Inhalation	Not relevant	Not relevant	0,73 mg/m <sup>3</sup>	Not relevant
Linalool	Oral	Not relevant	Not relevant	2,49 mg/kg	Not relevant
CAS: 78-70-6	Dermal	Not relevant	Not relevant	1,25 mg/kg	Not relevant
EC: 201-134-4	Inhalation	Not relevant	Not relevant	4,33 mg/m <sup>3</sup>	Not relevant
2,6-di-tert-butyl-p-cresol	Oral	Not relevant	Not relevant	Not relevant	Not relevant
CAS: 128-37-0	Dermal	Not relevant	Not relevant	0,25 mg/kg	Not relevant
EC: 204-881-4	Inhalation	Not relevant	Not relevant	0,86 mg/m <sup>3</sup>	Not relevant
Citral	Oral	Not relevant	Not relevant	0,6 mg/kg	Not relevant
CAS: 5392-40-5	Dermal	Not relevant	Not relevant	1 mg/kg	Not relevant
EC: 226-394-6	Inhalation	Not relevant	Not relevant	2,7 mg/m <sup>3</sup>	Not relevant
Citronellol	Oral	Not relevant	Not relevant	13,8 mg/kg	Not relevant
CAS: 106-22-9	Dermal	Not relevant	Not relevant	196,4 mg/kg	Not relevant
EC: 203-375-0	Inhalation	Not relevant	10 mg/m <sup>3</sup>	47,8 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>
Dimethylcyclohex-3-ene-1-carbaldehyde	Oral	Not relevant	Not relevant	1,3 mg/kg	Not relevant
CAS: 27939-60-2	Dermal	Not relevant	Not relevant	1,3 mg/kg	Not relevant
EC: 248-742-6	Inhalation	Not relevant	Not relevant	2,2 mg/m <sup>3</sup>	Not relevant
Mandarin orange, ext.	Oral	Not relevant	Not relevant	3,33 mg/kg	Not relevant
CAS: 84929-38-4	Dermal	Not relevant	Not relevant	3,33 mg/kg	Not relevant
EC: 284-521-0	Inhalation	Not relevant	Not relevant	5,8 mg/m <sup>3</sup>	Not relevant
Eucalyptus maculata citriodora, oil	Oral	Not relevant	Not relevant	1,28 mg/kg	Not relevant
CAS: 85203-56-1	Dermal	Not relevant	Not relevant	8 mg/kg	Not relevant
EC: 286-249-8	Inhalation	Not relevant	Not relevant	2,22 mg/m <sup>3</sup>	Not relevant
Citronellyl formate	Oral	Not relevant	Not relevant	0,5 mg/kg	Not relevant
CAS: 105-85-1	Dermal	Not relevant	Not relevant	0,5 mg/kg	Not relevant
EC: 203-338-9	Inhalation	Not relevant	Not relevant	0,87 mg/m <sup>3</sup>	Not relevant
(E)-1-(2,6,6-trimethyl-2-cyclohexen-1-yl)-2-buten-1-one	Oral	Not relevant	Not relevant	0,39 mg/kg	Not relevant
CAS: 24720-09-0	Dermal	Not relevant	Not relevant	0,39 mg/kg	Not relevant
EC: 246-430-4	Inhalation	Not relevant	Not relevant	0,67 mg/m <sup>3</sup>	Not relevant

**PNEC:**

Identification					
Ethyl 2,3-epoxy-3-phenylbutyrate	STP	10 mg/L	Fresh water	0,008 mg/L	
CAS: 77-83-8	Soil	0,038 mg/kg	Marine water	0,0084 mg/L	
EC: 201-061-8	Intermittent	0,084 mg/L	Sediment (Fresh water)	0,214 mg/kg	
	Oral	0,0233 g/kg	Sediment (Marine water)	0,021 mg/kg	

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**ART. COMERCIAL ORANGE BLOSSOM & GINGER**

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

Identification				
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	Not relevant	Sediment (Fresh water)	3,85 mg/kg
	Oral	0,133 g/kg	Sediment (Marine water)	0,385 mg/kg
4-(2,6,6-trimethylcyclohex-1-ene-1-yl)-but-3-ene-2-one CAS: 14901-07-6 EC: 238-969-9	STP	0,043 mg/L	Fresh water	0,001 mg/L
	Soil	10,466 mg/kg	Marine water	0 mg/L
	Intermittent	0,015 mg/L	Sediment (Fresh water)	22,451 mg/kg
	Oral	Not relevant	Sediment (Marine water)	22,451 mg/kg
Linalyl acetate CAS: 115-95-7 EC: 204-116-4	STP	1 mg/L	Fresh water	0,011 mg/L
	Soil	0,115 mg/kg	Marine water	0,001 mg/L
	Intermittent	0,11 mg/L	Sediment (Fresh water)	0,609 mg/kg
	Oral	Not relevant	Sediment (Marine water)	0,061 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	Not relevant	Sediment (Fresh water)	10,66 mg/kg
	Oral	Not relevant	Sediment (Marine water)	1,07 mg/kg
Allyl heptanoate CAS: 142-19-8 EC: 205-527-1	STP	10 mg/L	Fresh water	0,00012 mg/L
	Soil	0,002 mg/kg	Marine water	0,000012 mg/L
	Intermittent	0,0012 mg/L	Sediment (Fresh water)	0,012 mg/kg
	Oral	Not relevant	Sediment (Marine water)	0,001 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
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
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
Citronellol CAS: 106-22-9 EC: 203-375-0	STP	580 mg/L	Fresh water	0,002 mg/L
	Soil	0,004 mg/kg	Marine water	0 mg/L
	Intermittent	0,024 mg/L	Sediment (Fresh water)	0,026 mg/kg
	Oral	Not relevant	Sediment (Marine water)	0,003 mg/kg
Dimethylcyclohex-3-ene-1-carbaldehyde CAS: 27939-60-2 EC: 248-742-6	STP	13,8 mg/L	Fresh water	0,008 mg/L
	Soil	0,023 mg/kg	Marine water	0,001 mg/L
	Intermittent	Not relevant	Sediment (Fresh water)	0,152 mg/kg
	Oral	Not relevant	Sediment (Marine water)	0,015 mg/kg
Mandarin orange, ext. CAS: 84929-38-4 EC: 284-521-0	STP	2,1 mg/L	Fresh water	0,0054 mg/L
	Soil	0,29 mg/kg	Marine water	0,00054 mg/L
	Intermittent	0,00577 mg/L	Sediment (Fresh water)	1,3 mg/kg
	Oral	Not relevant	Sediment (Marine water)	0,13 mg/kg
Eucalyptus maculata citriodora, oil CAS: 85203-56-1 EC: 286-249-8	STP	10 mg/L	Fresh water	0,0433 mg/L
	Soil	0,053 mg/kg	Marine water	0,0043 mg/L
	Intermittent	Not relevant	Sediment (Fresh water)	0,367 mg/kg
	Oral	Not relevant	Sediment (Marine water)	0,037 mg/kg
Citronellyl formate CAS: 105-85-1 EC: 203-338-9	STP	2,24 mg/L	Fresh water	0,0013 mg/L
	Soil	0,01789 mg/kg	Marine water	0,00013 mg/L
	Intermittent	0,013 mg/L	Sediment (Fresh water)	0,09355 mg/kg
	Oral	Not relevant	Sediment (Marine water)	0,00935 mg/kg

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

Identification				
(E)-1-(2,6,6-trimethyl-2-cyclohexen-1-yl)-2-buten-1-one	STP	3,2 mg/L	Fresh water	0,00109 mg/L
CAS: 24720-09-0	Soil	0,021 mg/kg	Marine water	0,00011 mg/L
EC: 246-430-4	Intermittent	0,0109 mg/L	Sediment (Fresh water)	0,107 mg/kg
	Oral	0,00667 g/kg	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

If the working conditions and/or safety measures adopted do not allow keeping the airborne concentration of the product below the exposure limits (if any) or at acceptable levels (if no exposure limits exist), suitable respiratory protection equipment chosen by a qualified professional should be used.

C.- Specific protection for the hands

Not relevant

D.- Eye and face protection

Not relevant

E.- Body protection

Not relevant

F.- Additional emergency measures

It is advised to implement additional emergency equipments in workplaces that are particularly exposed to the product or in situations where risk assessments highlight the necessity of such equipments.

It is not necessary to take additional emergency measures.

**Environmental exposure controls:**

To comply with environmental protection regulations, it is recommended to prevent any spillage of the product and its container. For more detailed information, please refer to subsection 7.1.D.

**Volatile organic compounds:**

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

V.O.C. (Supply):	12,07 % weight
V.O.C. density at 20 °C:	122,62 kg/m <sup>3</sup> (122,62 g/L)
Average carbon number:	10
Average molecular weight:	143,35 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:	Characteristic
Colour:	Yellowish
Odour:	Characteristic
Odour threshold:	Not relevant *

**Volatility:**

Boiling point at atmospheric pressure:	261 °C
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\*Not relevant due to the nature of the product, not providing information property of its hazards.

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

Vapour pressure at 20 °C:	30 Pa
Vapour pressure at 50 °C:	170,49 Pa (0,17 kPa)
Evaporation rate at 20 °C:	Not relevant *

**Product description:**

Density at 20 °C:	1015,9 kg/m <sup>3</sup>
Relative density at 20 °C:	1,005 - 1,025
Dynamic viscosity at 20 °C:	0 mPa·s
Kinematic viscosity at 20 °C:	0 mm <sup>2</sup> /s
Kinematic viscosity at 40 °C:	Not relevant *
Concentration:	Not relevant *
pH:	7
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:	51 °C
Flammability (solid, gas):	Not relevant *
Autoignition temperature:	195 °C
Lower flammability limit:	Not relevant *
Upper flammability limit:	Not relevant *

**Particle characteristics:**

Median equivalent diameter:	Not relevant *
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**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:	1,48 - 1,5

\*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:**

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

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	Risk of combustion	Avoid direct impact	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:**

Contains substances which require external energy for spontaneous decomposition. Form explosive peroxides when distilled, evaporated or otherwise concentrated.

**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: The consumption of a considerable dose can cause irritation in the throat, abdominal pain, nausea and vomiting.
- 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, 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: Produces skin inflammation.
- 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: 2,6-di-tert-butyl-p-cresol (3); d-limonene (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.

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:

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**ESENCIA 17713**  
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**SECTION 11: TOXICOLOGICAL INFORMATION (continued)**

- 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:**

Identification	Acute toxicity	Genus	
Allyl heptanoate CAS: 142-19-8 EC: 205-527-1	LD50 oral	218 mg/kg	Rat
	LD50 dermal	810 mg/kg	Rabbit
	LC50 inhalation		
Linalyl acetate CAS: 115-95-7 EC: 204-116-4	LD50 oral	14500 mg/kg	Rat
	LD50 dermal	5610 mg/kg	Rabbit
	LC50 inhalation		
d-limonene CAS: 5989-27-5 EC: 227-813-5	LD50 oral	4400 mg/kg	Rat
	LD50 dermal	>5000 mg/kg	Rabbit
	LC50 inhalation		
Benzyl benzoate CAS: 120-51-4 EC: 204-402-9	LD50 oral	500 mg/kg	Rat
	LD50 dermal		
	LC50 inhalation		
Linalool CAS: 78-70-6 EC: 201-134-4	LD50 oral	3000 mg/kg	Rat
	LD50 dermal	5610 mg/kg	Rabbit
	LC50 inhalation		
2,6-di-tert-butyl-p-cresol CAS: 128-37-0 EC: 204-881-4	LD50 oral	>6000 mg/kg	Rat
	LD50 dermal	>2000 mg/kg	Rat
	LC50 inhalation		
Citral CAS: 5392-40-5 EC: 226-394-6	LD50 oral	4950 mg/kg	Rat
	LD50 dermal	2250 mg/kg	Rabbit
	LC50 inhalation		
Citronellol CAS: 106-22-9 EC: 203-375-0	LD50 oral	3450 mg/kg	Rat
	LD50 dermal	2650 mg/kg	
	LC50 inhalation		
Dimethylcyclohex-3-ene-1-carbaldehyde CAS: 27939-60-2 EC: 248-742-6	LD50 oral	3900 mg/kg	Rat
	LD50 dermal	2630 mg/kg	
	LC50 inhalation		
Eucalyptus maculata citriodora, oil CAS: 85203-56-1 EC: 286-249-8	LD50 oral	2500 mg/kg	Rat
	LD50 dermal	2480 mg/kg	Rat
	LC50 inhalation		
Citronellyl formate CAS: 105-85-1 EC: 203-338-9	LD50 oral	6800 mg/kg	Rat
	LD50 dermal		
	LC50 inhalation		
(E)-1-(2,6,6-trimethyl-2-cyclohexen-1-yl)-2-buten-1-one CAS: 24720-09-0 EC: 246-430-4	LD50 oral	1500 mg/kg	Rat
	LD50 dermal	4100 mg/kg	Rat
	LC50 inhalation		

**11.2 Information on other hazards:**

**Endocrine disrupting properties**

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

**Other information**

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

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
Ethyl 2,3-epoxy-3-phenylbutyrate	LC50	4,2 mg/L (96 h)	Oncorhynchus mykiss	Fish
CAS: 77-83-8	EC50	52 mg/L (48 h)	Daphnia magna	Crustacean
EC: 201-061-8	EC50	36 mg/L (72 h)	Pseudokirchneriella subcapitata	Algae
d-limonene	LC50	0,702 mg/L (96 h)	Pimephales promelas	Fish
CAS: 5989-27-5	EC50	0,577 mg/L (48 h)	Daphnia magna	Crustacean
EC: 227-813-5	EC50	Not relevant		
4-(2,6,6-trimethylcyclohex-1-ene-1-yl)-but-3-ene-2-one	LC50	>1 - 10 mg/L (96 h)		Fish
CAS: 14901-07-6	EC50	>1 - 10 mg/L (48 h)		Crustacean
EC: 238-969-9	EC50	>1 - 10 mg/L (72 h)		Algae
Linalyl acetate	LC50	11 mg/L (96 h)	Cyprinus carpio	Fish
CAS: 115-95-7	EC50	15 mg/L (48 h)	Daphnia magna	Crustacean
EC: 204-116-4	EC50	62 mg/L (72 h)	Desmodesmus subspicatus	Algae
Benzyl benzoate	LC50	>1 - 10 mg/L (96 h)		Fish
CAS: 120-51-4	EC50	>1 - 10 mg/L (48 h)		Crustacean
EC: 204-402-9	EC50	>1 - 10 mg/L (72 h)		Algae
Allyl heptanoate	LC50	0,12 mg/L (96 h)	Danio rerio	Fish
CAS: 142-19-8	EC50	0,89 mg/L (48 h)	Daphnia magna	Crustacean
EC: 205-527-1	EC50	4,6 mg/L (72 h)	Desmodesmus subspicatus	Algae
2,6-di-tert-butyl-p-cresol	LC50	>0,57 mg/L (96 h)	Brachydanio rerio	Fish
CAS: 128-37-0	EC50	0,48 mg/L (48 h)	Daphnia magna	Crustacean
EC: 204-881-4	EC50	>0,4 mg/L (72 h)	Desmodesmus subspicatus	Algae
Citral	LC50	6,1 mg/L (24 h)	Oryzias latipes	Fish
CAS: 5392-40-5	EC50	11 mg/L (24 h)	Daphnia magna	Crustacean
EC: 226-394-6	EC50	16 mg/L (72 h)	Scenedesmus subspicatus	Algae
Dimethylcyclohex-3-ene-1-carbaldehyde	LC50	15 mg/L (96 h)	Oryzias latipes	Fish
CAS: 27939-60-2	EC50	7,74 mg/L (48 h)	Daphnia magna	Crustacean
EC: 248-742-6	EC50	22,8 mg/L (72 h)	Pseudokirchneriella subcapitata	Algae
Mandarin orange, ext.	LC50	>0.1 - 1 mg/L (96 h)		Fish
CAS: 84929-38-4	EC50	>0.1 - 1 mg/L (48 h)		Crustacean
EC: 284-521-0	EC50	>0.1 - 1 mg/L (72 h)		Algae
Eucalyptus maculata citriodora, oil	LC50	>10 - 100 mg/L (96 h)		Fish
CAS: 85203-56-1	EC50	>10 - 100 mg/L (48 h)		Crustacean
EC: 286-249-8	EC50	>10 - 100 mg/L (72 h)		Algae
Citronellyl formate	LC50	1,3 mg/L (96 h)	Danio rerio	Fish
CAS: 105-85-1	EC50	7,6 mg/L (48 h)	Daphnia magna	Crustacean
EC: 203-338-9	EC50	3,1 mg/L (72 h)	Pseudokirchneriella subcapitata	Algae
(E)-1-(2,6,6-trimethyl-2-cyclohexen-1-yl)-2-buten-1-one	LC50	1,09 mg/L (96 h)	Oryzias latipes	Fish
CAS: 24720-09-0	EC50	2,37 mg/L (48 h)	Daphnia magna	Crustacean
EC: 246-430-4	EC50	Not relevant		

**12.2 Persistence and degradability:**
**Substance-specific information:**

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

Identification	Degradability		Biodegradability	
Ethyl 2,3-epoxy-3-phenylbutyrate CAS: 77-83-8 EC: 201-061-8	BOD5	Not relevant	Concentration	100 mg/L
	COD	Not relevant	Period	28 days
	BOD5/COD	Not relevant	% Biodegradable	53 %
d-limonene CAS: 5989-27-5 EC: 227-813-5	BOD5	Not relevant	Concentration	10 mg/L
	COD	Not relevant	Period	28 days
	BOD5/COD	Not relevant	% Biodegradable	71,4 %
Linalyl acetate CAS: 115-95-7 EC: 204-116-4	BOD5	Not relevant	Concentration	81 mg/L
	COD	Not relevant	Period	28 days
	BOD5/COD	Not relevant	% Biodegradable	80 %
Allyl heptanoate CAS: 142-19-8 EC: 205-527-1	BOD5	Not relevant	Concentration	100 mg/L
	COD	Not relevant	Period	28 days
	BOD5/COD	Not relevant	% Biodegradable	81 %
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 %
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 %
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 %
Citronellyl formate CAS: 105-85-1 EC: 203-338-9	BOD5	Not relevant	Concentration	22 mg/L
	COD	Not relevant	Period	28 days
	BOD5/COD	Not relevant	% Biodegradable	88 %
(E)-1-(2,6,6-trimethyl-2-cyclohexen-1-yl)-2-buten-1-one CAS: 24720-09-0 EC: 246-430-4	BOD5	Not relevant	Concentration	30 mg/L
	COD	Not relevant	Period	28 days
	BOD5/COD	Not relevant	% Biodegradable	56 %

**12.3 Bioaccumulative potential:**

**Substance-specific information:**

Identification	Bioaccumulation potential	
d-limonene CAS: 5989-27-5 EC: 227-813-5	BCF	
	Pow Log	4.83
	Potential	
Linalyl acetate CAS: 115-95-7 EC: 204-116-4	BCF	174
	Pow Log	3.9
	Potential	High
Allyl heptanoate CAS: 142-19-8 EC: 205-527-1	BCF	473
	Pow Log	2.99
	Potential	High
Linalool CAS: 78-70-6 EC: 201-134-4	BCF	
	Pow Log	2.97
	Potential	
2,6-di-tert-butyl-p-cresol CAS: 128-37-0 EC: 204-881-4	BCF	1365
	Pow Log	5.1
	Potential	Very High
Citral CAS: 5392-40-5 EC: 226-394-6	BCF	10
	Pow Log	3.45
	Potential	Low
(E)-1-(2,6,6-trimethyl-2-cyclohexen-1-yl)-2-buten-1-one CAS: 24720-09-0 EC: 246-430-4	BCF	20
	Pow Log	2.97
	Potential	Low

**12.4 Mobility in soil:**

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**ESENCIA 17713**  
**ART. COMERCIAL ORANGE BLOSSOM & GINGER**

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

Identification	Absorption/desorption			Volatility
Ethyl 2,3-epoxy-3-phenylbutyrate CAS: 77-83-8 EC: 201-061-8	Koc Conclusion Surface tension	240 Moderate Not relevant	Henry Dry soil Moist soil	Not relevant Not relevant Not relevant
d-limonene CAS: 5989-27-5 EC: 227-813-5	Koc Conclusion Surface tension	6324 Immobile 2,675E-2 N/m (25 °C)	Henry Dry soil Moist soil	2533,13 Pa·m <sup>3</sup> /mol Yes Yes
4-(2,6,6-trimethylcyclohex-1-ene-1-yl)-but-3-ene-2-one CAS: 14901-07-6 EC: 238-969-9	Koc Conclusion Surface tension	Not relevant Not relevant 3,952E-2 N/m (20 °C)	Henry Dry soil Moist soil	Not relevant Not relevant Not relevant
Linalyl acetate CAS: 115-95-7 EC: 204-116-4	Koc Conclusion Surface tension	518 Low Not relevant	Henry Dry soil Moist soil	177 Pa·m <sup>3</sup> /mol Yes Yes
Benzyl benzoate CAS: 120-51-4 EC: 204-402-9	Koc Conclusion Surface tension	Not relevant Not relevant 4,626E-2 N/m (25 °C)	Henry Dry soil Moist soil	Not relevant Not relevant Not relevant
Allyl heptanoate CAS: 142-19-8 EC: 205-527-1	Koc Conclusion Surface tension	968.3 Low Not relevant	Henry Dry soil Moist soil	112 Pa·m <sup>3</sup> /mol Not relevant Not relevant
2,6-di-tert-butyl-p-cresol CAS: 128-37-0 EC: 204-881-4	Koc Conclusion Surface tension	8183 Immobile 1,255E-2 N/m (258,85 °C)	Henry Dry soil Moist soil	3,42E-1 Pa·m <sup>3</sup> /mol Yes Yes
(E)-1-(2,6,6-trimethyl-2-cyclohexen-1-yl)-2-buten-1-one CAS: 24720-09-0 EC: 246-430-4	Koc Conclusion Surface tension	941.1 Low Not relevant	Henry Dry soil Moist soil	Not relevant Not relevant 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.

**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, HP3 Flammable, HP13 Sensitising

**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

\*\* Changes with regards to the previous version

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**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:** UN1197
- 14.2 UN proper shipping name:** EXTRACTS, LIQUID
- 14.3 Transport hazard class(es):** 3  
Labels: 3
- 14.4 Packing group:** III
- 14.5 Environmental hazards:** Yes
- 14.6 Special precautions for user**  
Special regulations: 601  
Tunnel restriction code: D/E  
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:



- 14.1 UN number or ID number:** UN1197
- 14.2 UN proper shipping name:** EXTRACTS, LIQUID
- 14.3 Transport hazard class(es):** 3  
Labels: 3
- 14.4 Packing group:** III
- 14.5 Marine pollutant:** Yes
- 14.6 Special precautions for user**  
Special regulations: 955, 223  
EmS Codes: F-E, S-D  
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:** UN1197
- 14.2 UN proper shipping name:** EXTRACTS, LIQUID
- 14.3 Transport hazard class(es):** 3  
Labels: 3
- 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

\*\* Changes with regards to the previous version

**SECTION 15: REGULATORY INFORMATION**

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

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**SECTION 15: REGULATORY INFORMATION (continued)**

- Article 95, REGULATION (EU) No 528/2012: Not relevant
- Candidate substances for authorisation under the Regulation (EC) No 1907/2006 (REACH): Not relevant
- Regulation (EU) 2019/1021 on persistent organic pollutants: Not relevant
- Regulation (EU) No 2024/590, about substances that deplete the ozone layer: Not relevant
- REGULATION (EU) No 649/2012, in relation to the import and export of hazardous chemical products: 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
P5c	FLAMMABLE LIQUIDS	5000	50000
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:**

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.:**

COMMISSION REGULATION (EU) 2020/878

Substances that contribute to the classification (SECTION 2):

- New declared substances
  - d-limonene (5989-27-5)
- Removed substances

Allyl heptanoate (142-19-8)

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

- Precautionary statements
- Substances contained in EUH208:
  - Removed substances
    - d-limonene (5989-27-5)

TRANSPORT INFORMATION (SECTION 14):

- UN number

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

- H317: May cause an allergic skin reaction.
- H411: Toxic to aquatic life with long lasting effects.
- H315: Causes skin irritation.
- H302: Harmful if swallowed.
- H226: Flammable liquid and vapour.

**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:**

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**SECTION 16: OTHER INFORMATION (continued)**

Acute Tox. 3: H301+H311 - Toxic if swallowed or in contact with skin.  
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 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:**

Skin Sens. 1B: Calculation method  
Aquatic Chronic 2: Calculation method  
Skin Irrit. 2: Calculation method  
Acute Tox. 4: Calculation method  
Flam. Liq. 3: Calculation method (2.6.4.3)

**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 -