




**ESENCIA 18387**  
**ART. COMERCIAL RIKURA****SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

- 1.1 Product identifier:** ESENCIA 18387  
ART. COMERCIAL RIKURA
- Other means of identification:**
- UFI:** FW9C-G087-R006-A4UP
- 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.  
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46701 GANDÍA - VALENCIA - ESPAÑA  
Phone: +34 96 111 70 07 - Fax: +34 96 296 59 05  
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- 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.
- Aquatic Chronic 2: Hazardous to the aquatic environment, long-term hazard, Category 2, H411  
Eye Dam. 1: Serious eye damage, Category 1, H318  
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:**
- Danger**
-   
- Hazard statements:**
- Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects.  
Eye Dam. 1: H318 - Causes serious eye damage.  
Skin Irrit. 2: H315 - Causes skin irritation.  
Skin Sens. 1A: 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.  
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.  
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310: Immediately call a poison center/doctor.  
P501: Dispose of contents/container according to the separated collection system used in your municipality.
- Supplementary information:**
- Contains Hexyl cinnam-aldehyde, Benzyl salicylate, Linalool, Coumarin, Citronellol, 3-p-cumenyl-2-methylpropionaldehyde, 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one, d-limonene, Cinnamyl alcohol, Piperonal, Undec-10-enal, 3-(4-tert-butylphenyl)propionaldehyde, L-p-mentha-1(6),8-dien-2-one, benzyl alcohol, Dimethylcyclohex-3-ene-1-carbaldehyde, Damasconone.
- Substances that contribute to the classification**

- CONTINUED ON NEXT PAGE -

**ESENCIA 18387**  
**ART. COMERCIAL RIKURA**

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

Geraniol; Nerol; Isoeugenol

**UFI:** FW9C-G087-R006-A4UP

**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 \*\***

**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: 101-86-0 EC: 202-983-3 Index: Not relevant REACH: Not relevant	<b>Hexyl cinnam-aldehyde<sup>(1)</sup></b> Regulation 1272/2008 Aquatic Acute 1: H400; Aquatic Chronic 2: H411; Skin Sens. 1B: H317 - Warning	Self-classified <b>10 - &lt;15 %</b>
CAS: 140-11-4 EC: 205-399-7 Index: Not relevant REACH: 01-2119638272-42-XXXX	<b>Benzyl acetate<sup>(1)</sup></b> Regulation 1272/2008 Aquatic Chronic 3: H412	Self-classified <b>5 - &lt;10 %</b>
CAS: 34902-57-3 EC: 422-320-3 Index: Not relevant REACH: 01-0000016883-62-XXXX	<b>(3E)-Oxacyclohexadec-3-en-2-one<sup>(1)</sup></b> Regulation 1272/2008 Aquatic Acute 1: H400; Aquatic Chronic 1: H410 - Warning	Self-classified <b>5 - &lt;10 %</b>
CAS: 118-58-1 EC: 204-262-9 Index: 607-754-00-5 REACH: 01-2119969442-31-XXXX	<b>Benzyl salicylate<sup>(1)</sup></b> Regulation 1272/2008 Aquatic Chronic 3: H412; Eye Irrit. 2: H319; Skin Sens. 1B: H317 - Warning	Self-classified <b>5 - &lt;10 %</b>
CAS: 78-70-6 EC: 201-134-4 Index: 603-235-00-2 REACH: 01-2119474016-42-XXXX	<b>Linalool<sup>(1)</sup></b> Regulation 1272/2008 Eye Irrit. 2: H319; Skin Irrit. 2: H315; Skin Sens. 1B: H317 - Warning	Self-classified <b>2,5 - &lt;5 %</b>
CAS: 60-12-8 EC: 200-456-2 Index: Not relevant REACH: 01-2119963921-31-XXXX	<b>2-phenylethanol<sup>(1)</sup></b> Regulation 1272/2008 Acute Tox. 4: H302; Eye Irrit. 2: H319 - Warning	Self-classified <b>2,5 - &lt;5 %</b>
CAS: 88-41-5 EC: 201-828-7 Index: Not relevant REACH: Not relevant	<b>2-tert-butylcyclohexyl acetate<sup>(1)</sup></b> Regulation 1272/2008 Aquatic Chronic 2: H411	Self-classified <b>2,5 - &lt;5 %</b>
CAS: 63500-71-0 EC: 405-040-6 Index: 603-101-00-3 REACH: 01-2119455547-30-XXXX	<b>Tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans)<sup>(1)</sup></b> Regulation 1272/2008 Eye Irrit. 2: H319 - Warning	ATP CLP00 <b>2,5 - &lt;5 %</b>
CAS: 91-64-5 EC: 202-086-7 Index: Not relevant REACH: 01-2119949300-45-XXXX	<b>Coumarin<sup>(1)</sup></b> Regulation 1272/2008 Acute Tox. 4: H302; Aquatic Chronic 3: H412; Skin Sens. 1: H317 - Warning	Self-classified <b>2,5 - &lt;5 %</b>
CAS: 106-22-9 EC: 203-375-0 Index: Not relevant REACH: 01-2119453995-23-XXXX	<b>Citronellol<sup>(1)</sup></b> Regulation 1272/2008 Eye Irrit. 2: H319; Skin Irrit. 2: H315; Skin Sens. 1B: H317 - Warning	Self-classified <b>1 - &lt;2,5 %</b>

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

<sup>(2)</sup> Substance with a Union workplace exposure limit

\*\* Changes with regards to the previous version

- CONTINUED ON NEXT PAGE -

**ESENCIA 18387**  
**ART. COMERCIAL RIKURA**

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

Identification	Chemical name/Classification	Concentration
CAS: 103-95-7 EC: 203-161-7 Index: Not relevant REACH: 01-2119970582-32-XXXX	<b>3-p-cumenyl-2-methylpropionaldehyde<sup>(1)</sup></b> Regulation 1272/2008 Aquatic Chronic 3: H412; Skin Irrit. 2: H315; Skin Sens. 1B: H317 - Warning	Self-classified 1 - <2,5 %
CAS: 106-24-1 EC: 203-377-1 Index: 603-241-00-5 REACH: 01-2119552430-49-XXXX	<b>Geraniol<sup>(1)</sup></b> Regulation 1272/2008 Eye Dam. 1: H318; Skin Irrit. 2: H315; Skin Sens. 1: H317 - Danger	Self-classified 1 - <2,5 %
CAS: 54464-57-2 EC: 259-174-3 Index: Not relevant REACH: Not relevant	<b>1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one<sup>(1)</sup></b> Regulation 1272/2008 Aquatic Chronic 1: H410; Skin Irrit. 2: H315; Skin Sens. 1: H317 - Warning	Self-classified 1 - <2,5 %
CAS: 106-25-2 EC: 203-378-7 Index: Not relevant REACH: 01-2119983244-33-XXXX	<b>Nerol<sup>(1)</sup></b> Regulation 1272/2008 Eye Dam. 1: H318; Skin Irrit. 2: H315; Skin Sens. 1B: H317 - Danger	Self-classified 1 - <2,5 %
CAS: 127-51-5 EC: 204-846-3 Index: Not relevant REACH: 01-2120138569-45-XXXX	<b>3-Methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one<sup>(1)</sup></b> Regulation 1272/2008 Aquatic Chronic 2: H411	Self-classified 1 - <2,5 %
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> 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	ATP ATP17 1 - <2,5 %
CAS: 104-54-1 EC: 203-212-3 Index: Not relevant REACH: 01-2119934496-29-XXXX	<b>Cinnamyl alcohol<sup>(1)</sup></b> Regulation 1272/2008 Acute Tox. 4: H302; Aquatic Chronic 2: H411; Skin Sens. 1: H317 - Warning	Self-classified <1 %
CAS: 107898-54-4 EC: 411-580-3 Index: 603-150-00-0 REACH: 01-0000015895-58-XXXX	<b>(±) trans-3,3-dimethyl-5-(2,2,3-trimethyl-cyclopent-3-en-1-yl)-pent-4-en-2-ol<sup>(1)</sup></b> Regulation 1272/2008 Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Skin Irrit. 2: H315 - Warning	ATP CLP00 <1 %
CAS: 120-57-0 EC: 204-409-7 Index: Not relevant REACH: 01-2119983608-21-XXXX	<b>Piperonal<sup>(1)</sup></b> Regulation 1272/2008 Repr. 2: H361fd; Skin Sens. 1B: H317 - Warning	Self-classified <1 %
CAS: 112-45-8 EC: 203-973-1 Index: Not relevant REACH: 01-2119980959-11-XXXX	<b>Undec-10-enal<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: 67634-00-8 EC: 266-803-5 Index: Not relevant REACH: 01-2120795456-39-XXXX	<b>Allyl (3-methylbutoxy)acetate<sup>(1)</sup></b> Regulation 1272/2008 Acute Tox. 4: H302+H312; Aquatic Acute 1: H400; STOT RE 2: H373 - Warning	Self-classified <1 %
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> Regulation 1272/2008 Aquatic Acute 1: H400; Aquatic Chronic 1: H410 - Warning	Self-classified <1 %
CAS: 18127-01-0 EC: 242-016-2 Index: Not relevant REACH: 01-2119983533-30-XXXX	<b>3-(4-tert-butylphenyl)propionaldehyde<sup>(1)</sup></b> Regulation 1272/2008 Aquatic Chronic 3: H412; Repr. 2: H361; Skin Irrit. 2: H315; Skin Sens. 1B: H317; STOT RE 2: H373 - Warning	Self-classified <1 %
CAS: 6485-40-1 EC: 229-352-5 Index: Not relevant REACH: 01-2119962458-25-XXXX	<b>L-p-mentha-1(6),8-dien-2-one<sup>(1)</sup></b> Regulation 1272/2008 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  
<sup>(2)</sup> Substance with a Union workplace exposure limit

\*\* Changes with regards to the previous version

- CONTINUED ON NEXT PAGE -

**ESENCIA 18387**  
**ART. COMERCIAL RIKURA**

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

Identification	Chemical name/Classification	Concentration
CAS: 100-51-6 EC: 202-859-9 Index: 603-057-00-5 REACH: 01-2119492630-38-XXXX	<b>benzyl alcohol<sup>(1)</sup></b> Regulation 1272/2008 Acute Tox. 4: H302; Eye Irrit. 2: H319; Skin Sens. 1B: H317 - Warning	ATP ATP21 <b>&lt;1 %</b>
CAS: 123-11-5 EC: 204-602-6 Index: Not relevant REACH: 01-2119977101-43-XXXX	<b>Anisaldehyde<sup>(1)</sup></b> Regulation 1272/2008 Aquatic Chronic 3: H412; Repr. 2: H361fd - Warning	Self-classified <b>&lt;1 %</b>
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 <b>&lt;1 %</b>
CAS: 123-92-2 EC: 204-662-3 Index: 607-130-00-2 REACH: 01-2119548408-32-XXXX	<b>Isopentyl acetate<sup>(2)</sup></b> Regulation 1272/2008 Flam. Liq. 3: H226; EUH066 - Warning	ATP CLP00 <b>&lt;1 %</b>
CAS: 97-54-1 EC: 202-590-7 Index: 604-094-00-X REACH: Not relevant	<b>Isoeugenol<sup>(1)</sup></b> Regulation 1272/2008 Skin Sens. 1A: H317 - Warning	ATP ATP13 <b>&lt;1 %</b>
CAS: 141-78-6 EC: 205-500-4 Index: 607-022-00-5 REACH: 01-2119475103-46-XXXX	<b>Ethyl acetate<sup>(2)</sup></b> Regulation 1272/2008 Eye Irrit. 2: H319; Flam. Liq. 2: H225; STOT SE 3: H336; EUH066 - Danger	ATP CLP00 <b>&lt;1 %</b>
CAS: 23696-85-7 EC: 245-833-2 Index: Not relevant REACH: Not relevant	<b>Damascenone<sup>(1)</sup></b> Regulation 1272/2008 Aquatic Chronic 2: H411; Skin Irrit. 2: H315; Skin Sens. 1A: H317 - Warning	Self-classified <b>&lt;1 %</b>

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

<sup>(2)</sup> Substance with a Union workplace exposure limit

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

Identification	Specific concentration limit
Isoeugenol CAS: 97-54-1 EC: 202-590-7	% (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:

Identification	Acute toxicity	Genus
Allyl (3-methylbutoxy)acetate CAS: 67634-00-8 EC: 266-803-5	LD50 oral	500 mg/kg
	LD50 dermal	1100 mg/kg
	LC50 inhalation vapour	1,867 mg/L *
2-phenylethanol CAS: 60-12-8 EC: 200-456-2	LD50 oral	1610 mg/kg
	LD50 dermal	Not relevant
	LC50 inhalation vapour	Not relevant
Coumarin CAS: 91-64-5 EC: 202-086-7	LD50 oral	500 mg/kg
	LD50 dermal	Not relevant
	LC50 inhalation vapour	Not relevant
Cinnamyl alcohol CAS: 104-54-1 EC: 203-212-3	LD50 oral	2000 mg/kg
	LD50 dermal	Not relevant
	LC50 inhalation vapour	Not relevant

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- CONTINUED ON NEXT PAGE -

**ESENCIA 18387**  
**ART. COMERCIAL RIKURA**

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

Identification	Acute toxicity		Genus
benzyl alcohol CAS: 100-51-6 EC: 202-859-9	LD50 oral	1200 mg/kg	
	LD50 dermal	Not relevant	
	LC50 inhalation vapour	Not relevant	

\* Equivalent ATE value of the substance applicable to the exposure route of the product. For the ATE value associated with the exposure route of the substance, see section 11.

\*\* Changes with regards to the previous version

**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:**

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

**By ingestion/aspiration:**

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

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

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

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

Not relevant

**SECTION 5: FIREFIGHTING MEASURES**

**5.1 Extinguishing media:**

**Suitable extinguishing media:**

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

**Unsuitable extinguishing media:**

Non-applicable

**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:**

- CONTINUED ON NEXT PAGE -

**ESENCIA 18387**  
**ART. COMERCIAL RIKURA**

## SECTION 5: FIREFIGHTING MEASURES (continued)

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:

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 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.

#### 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

- CONTINUED ON NEXT PAGE -

**ESENCIA 18387**  
**ART. COMERCIAL RIKURA**

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

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):

Directive (EU) 2000/39, Directive 2004/37/EC, Directive (EU) 2006/15, Directive (EU) 2009/161, Directive (EU) 2017/164, Directive (EU) 2019/1831:

Identification		Occupational exposure limits	
Ethyl acetate CAS: 141-78-6 EC: 205-500-4	IOELV (8h)	200 ppm	734 mg/m <sup>3</sup>
	IOELV (STEL)	400 ppm	1468 mg/m <sup>3</sup>
Isopentyl acetate CAS: 123-92-2 EC: 204-662-3	IOELV (8h)	50 ppm	270 mg/m <sup>3</sup>
	IOELV (STEL)	100 ppm	540 mg/m <sup>3</sup>

**DNEL (Workers):**

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
Benzyl acetate CAS: 140-11-4 EC: 205-399-7	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	9 mg/m <sup>3</sup>	Not relevant
Benzyl salicylate CAS: 118-58-1 EC: 204-262-9	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	7,8 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-phenylethanol CAS: 60-12-8 EC: 200-456-2	Oral	Not relevant	Not relevant	Not relevant	Not relevant
	Dermal	Not relevant	Not relevant	21,2 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	59,9 mg/m <sup>3</sup>	Not relevant
Tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans) CAS: 63500-71-0 EC: 405-040-6	Oral	Not relevant	Not relevant	Not relevant	Not relevant
	Dermal	Not relevant	Not relevant	41,7 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	44,1 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
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>
3-p-cumenyl-2-methylpropionaldehyde CAS: 103-95-7 EC: 203-161-7	Oral	Not relevant	Not relevant	Not relevant	Not relevant
	Dermal	Not relevant	Not relevant	1,67 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	5,83 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

- CONTINUED ON NEXT PAGE -

**ESENCIA 18387**  
**ART. COMERCIAL RIKURA**

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

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
Nerol	Oral	Not relevant	Not relevant	Not relevant	Not relevant
CAS: 106-25-2	Dermal	Not relevant	Not relevant	1,25 mg/kg	Not relevant
EC: 203-378-7	Inhalation	Not relevant	Not relevant	4,4 mg/m <sup>3</sup>	Not relevant
3-Methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one	Oral	Not relevant	Not relevant	Not relevant	Not relevant
CAS: 127-51-5	Dermal	Not relevant	Not relevant	0,375 mg/kg	Not relevant
EC: 204-846-3	Inhalation	Not relevant	Not relevant	8,22 mg/m <sup>3</sup>	Not relevant
d-limonene	Oral	Not relevant	Not relevant	Not relevant	Not relevant
CAS: 5989-27-5	Dermal	Not relevant	Not relevant	9,5 mg/kg	Not relevant
EC: 227-813-5	Inhalation	Not relevant	Not relevant	66,7 mg/m <sup>3</sup>	Not relevant
Cinnamyl alcohol	Oral	Not relevant	Not relevant	Not relevant	Not relevant
CAS: 104-54-1	Dermal	Not relevant	Not relevant	0,749 mg/kg	Not relevant
EC: 203-212-3	Inhalation	Not relevant	Not relevant	2,64 mg/m <sup>3</sup>	Not relevant
Piperonal	Oral	Not relevant	Not relevant	Not relevant	Not relevant
CAS: 120-57-0	Dermal	Not relevant	Not relevant	2,5 mg/kg	Not relevant
EC: 204-409-7	Inhalation	Not relevant	Not relevant	17,6 mg/m <sup>3</sup>	Not relevant
Undec-10-enal	Oral	Not relevant	Not relevant	Not relevant	Not relevant
CAS: 112-45-8	Dermal	Not relevant	Not relevant	4,67 mg/kg	Not relevant
EC: 203-973-1	Inhalation	Not relevant	Not relevant	16,4 mg/m <sup>3</sup>	Not relevant
Allyl (3-methylbutoxy)acetate	Oral	Not relevant	Not relevant	Not relevant	Not relevant
CAS: 67634-00-8	Dermal	Not relevant	Not relevant	1,4 mg/kg	Not relevant
EC: 266-803-5	Inhalation	Not relevant	Not relevant	4,93 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	0,5 mg/kg	Not relevant
EC: 204-881-4	Inhalation	Not relevant	Not relevant	3,5 mg/m <sup>3</sup>	Not relevant
3-(4-tert-butylphenyl)propionaldehyde	Oral	Not relevant	Not relevant	Not relevant	Not relevant
CAS: 18127-01-0	Dermal	3,57 mg/kg	Not relevant	0,89 mg/kg	Not relevant
EC: 242-016-2	Inhalation	0,88 mg/m <sup>3</sup>	0,88 mg/m <sup>3</sup>	0,308 mg/m <sup>3</sup>	0,22 mg/m <sup>3</sup>
L-p-mentha-1(6),8-dien-2-one	Oral	Not relevant	Not relevant	Not relevant	Not relevant
CAS: 6485-40-1	Dermal	Not relevant	Not relevant	0,194 mg/kg	Not relevant
EC: 229-352-5	Inhalation	Not relevant	Not relevant	0,685 mg/m <sup>3</sup>	Not relevant
benzyl alcohol	Oral	Not relevant	Not relevant	Not relevant	Not relevant
CAS: 100-51-6	Dermal	40 mg/kg	Not relevant	8 mg/kg	Not relevant
EC: 202-859-9	Inhalation	110 mg/m <sup>3</sup>	Not relevant	22 mg/m <sup>3</sup>	Not relevant
Anisaldehyde	Oral	Not relevant	Not relevant	Not relevant	Not relevant
CAS: 123-11-5	Dermal	Not relevant	Not relevant	3,33 mg/kg	Not relevant
EC: 204-602-6	Inhalation	Not relevant	Not relevant	5,88 mg/m <sup>3</sup>	Not relevant
Dimethylcyclohex-3-ene-1-carbaldehyde	Oral	Not relevant	Not relevant	Not relevant	Not relevant
CAS: 27939-60-2	Dermal	Not relevant	Not relevant	2,1 mg/kg	Not relevant
EC: 248-742-6	Inhalation	Not relevant	Not relevant	7,3 mg/m <sup>3</sup>	Not relevant
Ethyl acetate	Oral	Not relevant	Not relevant	Not relevant	Not relevant
CAS: 141-78-6	Dermal	Not relevant	Not relevant	63 mg/kg	Not relevant
EC: 205-500-4	Inhalation	1468 mg/m <sup>3</sup>	1468 mg/m <sup>3</sup>	734 mg/m <sup>3</sup>	734 mg/m <sup>3</sup>

**DNEL (General population):**

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
Benzyl acetate	Oral	Not relevant	Not relevant	1,3 mg/kg	Not relevant
CAS: 140-11-4	Dermal	Not relevant	Not relevant	1,3 mg/kg	Not relevant
EC: 205-399-7	Inhalation	Not relevant	Not relevant	2,2 mg/m <sup>3</sup>	Not relevant

- CONTINUED ON NEXT PAGE -

**ESENCIA 18387**  
**ART. COMERCIAL RIKURA**

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

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
Benzyl salicylate CAS: 118-58-1 EC: 204-262-9	Oral	Not relevant	Not relevant	0,79 mg/kg	Not relevant
	Dermal	Not relevant	Not relevant	0,79 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	1,37 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
2-phenylethanol CAS: 60-12-8 EC: 200-456-2	Oral	5,1 mg/kg	Not relevant	5,1 mg/kg	Not relevant
	Dermal	Not relevant	Not relevant	12,7 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	17,7 mg/m <sup>3</sup>	Not relevant
Tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans) CAS: 63500-71-0 EC: 405-040-6	Oral	Not relevant	Not relevant	7,5 mg/kg	Not relevant
	Dermal	Not relevant	Not relevant	25 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	13 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
Citronellol CAS: 106-22-9 EC: 203-375-0	Oral	Not relevant	Not relevant	13,8 mg/kg	Not relevant
	Dermal	Not relevant	Not relevant	196,4 mg/kg	Not relevant
	Inhalation	Not relevant	10 mg/m <sup>3</sup>	47,8 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>
3-p-cumenyl-2-methylpropionaldehyde CAS: 103-95-7 EC: 203-161-7	Oral	Not relevant	Not relevant	0,83 mg/kg	Not relevant
	Dermal	Not relevant	Not relevant	0,83 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	1,45 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
Nerol CAS: 106-25-2 EC: 203-378-7	Oral	Not relevant	Not relevant	0,62 mg/kg	Not relevant
	Dermal	Not relevant	Not relevant	0,62 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	1,09 mg/m <sup>3</sup>	Not relevant
3-Methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one CAS: 127-51-5 EC: 204-846-3	Oral	Not relevant	Not relevant	0,0355 mg/kg	Not relevant
	Dermal	Not relevant	Not relevant	0,0446 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	1,45 mg/m <sup>3</sup>	Not relevant
d-limonene 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
Cinnamyl alcohol CAS: 104-54-1 EC: 203-212-3	Oral	Not relevant	Not relevant	0,268 mg/kg	Not relevant
	Dermal	Not relevant	Not relevant	0,268 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	0,465 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
Undec-10-enal CAS: 112-45-8 EC: 203-973-1	Oral	Not relevant	Not relevant	1,67 mg/kg	Not relevant
	Dermal	Not relevant	Not relevant	1,67 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	2,47 mg/m <sup>3</sup>	Not relevant
Allyl (3-methylbutoxy)acetate CAS: 67634-00-8 EC: 266-803-5	Oral	Not relevant	Not relevant	0,5 mg/kg	Not relevant
	Dermal	Not relevant	Not relevant	0,5 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	0,87 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

- CONTINUED ON NEXT PAGE -

**ESENCIA 18387**  
**ART. COMERCIAL RIKURA**

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

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
3-(4-tert-butylphenyl)propionaldehyde CAS: 18127-01-0 EC: 242-016-2	Oral	26,88 mg/kg	Not relevant	0,03 mg/kg	Not relevant
	Dermal	1,79 mg/kg	Not relevant	0,45 mg/kg	Not relevant
	Inhalation	0,22 mg/m <sup>3</sup>	0,22 mg/m <sup>3</sup>	0,0544 mg/m <sup>3</sup>	0,22 mg/m <sup>3</sup>
L-p-mentha-1(6),8-dien-2-one CAS: 6485-40-1 EC: 229-352-5	Oral	Not relevant	Not relevant	0,0694 mg/kg	Not relevant
	Dermal	Not relevant	Not relevant	0,0694 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	0,121 mg/m <sup>3</sup>	Not relevant
benzyl alcohol CAS: 100-51-6 EC: 202-859-9	Oral	20 mg/kg	Not relevant	4 mg/kg	Not relevant
	Dermal	20 mg/kg	Not relevant	4 mg/kg	Not relevant
	Inhalation	27 mg/m <sup>3</sup>	Not relevant	5,4 mg/m <sup>3</sup>	Not relevant
Anisaldehyde CAS: 123-11-5 EC: 204-602-6	Oral	Not relevant	Not relevant	1 mg/kg	Not relevant
	Dermal	Not relevant	Not relevant	2 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	1,74 mg/m <sup>3</sup>	Not relevant
Dimethylcyclohex-3-ene-1-carbaldehyde CAS: 27939-60-2 EC: 248-742-6	Oral	Not relevant	Not relevant	1,3 mg/kg	Not relevant
	Dermal	Not relevant	Not relevant	1,3 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	2,2 mg/m <sup>3</sup>	Not relevant
Ethyl acetate CAS: 141-78-6 EC: 205-500-4	Oral	Not relevant	Not relevant	4,5 mg/kg	Not relevant
	Dermal	Not relevant	Not relevant	37 mg/kg	Not relevant
	Inhalation	734 mg/m <sup>3</sup>	734 mg/m <sup>3</sup>	367 mg/m <sup>3</sup>	367 mg/m <sup>3</sup>

**PNEC:**

Identification				
Benzyl acetate CAS: 140-11-4 EC: 205-399-7	STP	8,55 mg/L	Fresh water	0,018 mg/L
	Soil	0,094 mg/kg	Marine water	0,002 mg/L
	Intermittent	0,04 mg/L	Sediment (Fresh water)	0,526 mg/kg
	Oral	Not relevant	Sediment (Marine water)	0,053 mg/kg
(3E)-Oxacyclohexadec-3-en-2-one CAS: 34902-57-3 EC: 422-320-3	STP	10 mg/L	Fresh water	0,0027 mg/L
	Soil	5,44 mg/kg	Marine water	0,00027 mg/L
	Intermittent	Not relevant	Sediment (Fresh water)	21 mg/kg
	Oral	Not relevant	Sediment (Marine water)	4,2 mg/kg
Benzyl salicylate CAS: 118-58-1 EC: 204-262-9	STP	10 mg/L	Fresh water	0,001 mg/L
	Soil	1,41 mg/kg	Marine water	0 mg/L
	Intermittent	0,01 mg/L	Sediment (Fresh water)	0,583 mg/kg
	Oral	0,0527 g/kg	Sediment (Marine water)	0,058 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-phenylethanol CAS: 60-12-8 EC: 200-456-2	STP	10 mg/L	Fresh water	0,215 mg/L
	Soil	0,164 mg/kg	Marine water	0,021 mg/L
	Intermittent	2,15 mg/L	Sediment (Fresh water)	1,454 mg/kg
	Oral	Not relevant	Sediment (Marine water)	0,145 mg/kg
Tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans) CAS: 63500-71-0 EC: 405-040-6	STP	10 mg/L	Fresh water	0,094 mg/L
	Soil	0,09 mg/kg	Marine water	0,009 mg/L
	Intermittent	0,94 mg/L	Sediment (Fresh water)	0,412 mg/kg
	Oral	Not relevant	Sediment (Marine water)	0,041 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

- CONTINUED ON NEXT PAGE -

**ESENCIA 18387**  
**ART. COMERCIAL RIKURA**

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

Identification				
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
3-p-cumenyl-2-methylpropionaldehyde CAS: 103-95-7 EC: 203-161-7	STP	1 mg/L	Fresh water	0,00109 mg/L
	Soil	0,025 mg/kg	Marine water	0,00011 mg/L
	Intermittent	0,01092 mg/L	Sediment (Fresh water)	0,126 mg/kg
	Oral	0,0333 g/kg	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
Nerol CAS: 106-25-2 EC: 203-378-7	STP	12,9 mg/L	Fresh water	0,00745 mg/L
	Soil	0,0223 mg/kg	Marine water	0,000745 mg/L
	Intermittent	0,0745 mg/L	Sediment (Fresh water)	0,133 mg/kg
	Oral	Not relevant	Sediment (Marine water)	0,0133 mg/kg
3-Methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one CAS: 127-51-5 EC: 204-846-3	STP	10 mg/L	Fresh water	0,00143 mg/L
	Soil	0,0878 mg/kg	Marine water	0,000143 mg/L
	Intermittent	0,0143 mg/L	Sediment (Fresh water)	0,443 mg/kg
	Oral	Not relevant	Sediment (Marine water)	0,0443 mg/kg
d-limonene CAS: 5989-27-5 EC: 227-813-5	STP	1,8 mg/L	Fresh water	0,014 mg/L
	Soil	0,763 mg/kg	Marine water	0,0014 mg/L
	Intermittent	Not relevant	Sediment (Fresh water)	3,85 mg/kg
	Oral	0,133 g/kg	Sediment (Marine water)	0,385 mg/kg
Cinnamyl alcohol CAS: 104-54-1 EC: 203-212-3	STP	16,127 mg/L	Fresh water	0,0077 mg/L
	Soil	0,019 mg/kg	Marine water	0,00077 mg/L
	Intermittent	0,077 mg/L	Sediment (Fresh water)	0,118 mg/kg
	Oral	Not relevant	Sediment (Marine water)	0,0118 mg/kg
(±) trans-3,3-dimethyl-5-(2,2,3-trimethyl-cyclopent-3-en-1-yl)-pent-4-en-2-ol CAS: 107898-54-4 EC: 411-580-3	STP	0,1 mg/L	Fresh water	0,0012 mg/L
	Soil	0,048 mg/kg	Marine water	0,00012 mg/L
	Intermittent	0,012 mg/L	Sediment (Fresh water)	0,246 mg/kg
	Oral	0,2222 g/kg	Sediment (Marine water)	0,025 mg/kg
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
Undec-10-enal CAS: 112-45-8 EC: 203-973-1	STP	0,625 mg/L	Fresh water	0,0201 mg/L
	Soil	18,9 mg/kg	Marine water	0,00201 mg/L
	Intermittent	Not relevant	Sediment (Fresh water)	94,5 mg/kg
	Oral	Not relevant	Sediment (Marine water)	9,45 mg/kg
Allyl (3-methylbutoxy)acetate CAS: 67634-00-8 EC: 266-803-5	STP	Not relevant	Fresh water	0,00077 mg/L
	Soil	0,00133 mg/kg	Marine water	0,000077 mg/L
	Intermittent	0,0077 mg/L	Sediment (Fresh water)	0,00893 mg/kg
	Oral	Not relevant	Sediment (Marine water)	0,000893 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
3-(4-tert-butylphenyl)propionaldehyde CAS: 18127-01-0 EC: 242-016-2	STP	3,16 mg/L	Fresh water	0,00105 mg/L
	Soil	0,0202 mg/kg	Marine water	0,000105 mg/L
	Intermittent	0,0105 mg/L	Sediment (Fresh water)	0,104 mg/kg
	Oral	0,00017 g/kg	Sediment (Marine water)	0,0104 mg/kg

- CONTINUED ON NEXT PAGE -

**ESENCIA 18387**  
**ART. COMERCIAL RIKURA**

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

Identification				
L-p-mentha-1(6),8-dien-2-one CAS: 6485-40-1 EC: 229-352-5	STP	10 mg/L	Fresh water	0,0061 mg/L
	Soil	0,035 mg/kg	Marine water	0,00061 mg/L
	Intermittent	0,061 mg/L	Sediment (Fresh water)	0,192 mg/kg
	Oral	Not relevant	Sediment (Marine water)	0,019 mg/kg
benzyl alcohol CAS: 100-51-6 EC: 202-859-9	STP	39 mg/L	Fresh water	1 mg/L
	Soil	0,456 mg/kg	Marine water	0,1 mg/L
	Intermittent	2,3 mg/L	Sediment (Fresh water)	5,27 mg/kg
	Oral	Not relevant	Sediment (Marine water)	0,527 mg/kg
Anisaldehyde CAS: 123-11-5 EC: 204-602-6	STP	8,5 mg/L	Fresh water	0,013 mg/L
	Soil	0,004 mg/kg	Marine water	0,0013 mg/L
	Intermittent	0,811 mg/L	Sediment (Fresh water)	0,06 mg/kg
	Oral	Not relevant	Sediment (Marine water)	0,006 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
Isopentyl acetate CAS: 123-92-2 EC: 204-662-3	STP	30 mg/L	Fresh water	0,011 mg/L
	Soil	0,06 mg/kg	Marine water	0,001 mg/L
	Intermittent	0,11 mg/L	Sediment (Fresh water)	0,335 mg/kg
	Oral	Not relevant	Sediment (Marine water)	0,034 mg/kg
Ethyl acetate CAS: 141-78-6 EC: 205-500-4	STP	650 mg/L	Fresh water	0,24 mg/L
	Soil	0,148 mg/kg	Marine water	0,024 mg/L
	Intermittent	1,65 mg/L	Sediment (Fresh water)	1,15 mg/kg
	Oral	0,2 g/kg	Sediment (Marine water)	0,115 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): 18,03 % weight

- CONTINUED ON NEXT PAGE -

**ESENCIA 18387**  
**ART. COMERCIAL RIKURA**

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

V.O.C. density at 20 °C:	176,92 kg/m <sup>3</sup> (176,92 g/L)
Average carbon number:	9,22
Average molecular weight:	149,85 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:	258 °C
Vapour pressure at 20 °C:	33 Pa
Vapour pressure at 50 °C:	175,04 Pa (0,18 kPa)
Evaporation rate at 20 °C:	Not relevant *

**Product description:**

Density at 20 °C:	981,2 kg/m <sup>3</sup>
Relative density at 20 °C:	0,984 - 1,004
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:	118 °C
Flammability (solid, gas):	Not relevant *
Autoignition temperature:	192 °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 *
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\*Not relevant due to the nature of the product, not providing information property of its hazards.

- CONTINUED ON NEXT PAGE -

**ESENCIA 18387**  
**ART. COMERCIAL RIKURA**

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

Oxidising properties:	Not relevant *
Corrosive to metals:	Not relevant *
Heat of combustion:	Not relevant *
Aerosols-total percentage (by mass) of flammable components:	Not relevant *
<b>Other safety characteristics:</b>	
Surface tension at 20 °C:	Not relevant *
Refraction index:	1,49 - 1,51

\*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:**

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: 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, 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):

\*\* Changes with regards to the previous version

- CONTINUED ON NEXT PAGE -

**ESENCIA 18387**  
**ART. COMERCIAL RIKURA**

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

- Contact with the skin: Produces skin inflammation.
- Contact with the eyes: Produces serious 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: Benzyl acetate (3); Coumarin (3); d-limonene (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. However, it does contain substances which are classified as dangerous due to repetitive exposure. For more information see section 3.
  - Skin: Based on available data, the classification criteria are not met. However, it does contain substances which are classified as dangerous due to repetitive exposure. 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
Benzyl acetate CAS: 140-11-4 EC: 205-399-7	LD50 oral	2490 mg/kg	Rat
	LD50 dermal		
	LC50 inhalation		
2-phenylethanol CAS: 60-12-8 EC: 200-456-2	LD50 oral	1610 mg/kg	Rat
	LD50 dermal	2100 mg/kg	Rabbit
	LC50 inhalation		
Hexyl cinnam-aldehyde CAS: 101-86-0 EC: 202-983-3	LD50 oral	3100 mg/kg	Rat
	LD50 dermal	3000 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		
Coumarin CAS: 91-64-5 EC: 202-086-7	LD50 oral	500 mg/kg	Rat
	LD50 dermal	>5000 mg/kg	
	LC50 inhalation		
Geraniol CAS: 106-24-1 EC: 203-377-1	LD50 oral	4200 mg/kg	Rat
	LD50 dermal	5100 mg/kg	Rabbit
	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		

\*\* Changes with regards to the previous version

- CONTINUED ON NEXT PAGE -

**ESENCIA 18387**  
**ART. COMERCIAL RIKURA**

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

Identification	Acute toxicity	Genus
Nerol CAS: 106-25-2 EC: 203-378-7	LD50 oral >5000 mg/kg LD50 dermal LC50 inhalation	Rat
Benzyl salicylate CAS: 118-58-1 EC: 204-262-9	LD50 oral 2200 mg/kg LD50 dermal 14150 mg/kg LC50 inhalation	Rat Rabbit
d-limonene CAS: 5989-27-5 EC: 227-813-5	LD50 oral 4400 mg/kg LD50 dermal >5000 mg/kg LC50 inhalation	Rat Rabbit
3-p-cumenyl-2-methylpropionaldehyde CAS: 103-95-7 EC: 203-161-7	LD50 oral 3810 mg/kg LD50 dermal LC50 inhalation	Rat
3-Methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one CAS: 127-51-5 EC: 204-846-3	LD50 oral >5000 mg/kg LD50 dermal >5000 mg/kg LC50 inhalation	Rat Rabbit
2-tert-butylcyclohexyl acetate CAS: 88-41-5 EC: 201-828-7	LD50 oral 4600 mg/kg LD50 dermal LC50 inhalation	Rat
Cinnamyl alcohol CAS: 104-54-1 EC: 203-212-3	LD50 oral 2000 mg/kg LD50 dermal LC50 inhalation	Rat
Piperonal CAS: 120-57-0 EC: 204-409-7	LD50 oral 2700 mg/kg LD50 dermal LC50 inhalation	Rat
Allyl (3-methylbutoxy)acetate CAS: 67634-00-8 EC: 266-803-5	LD50 oral 500 mg/kg LD50 dermal 1100 mg/kg LC50 inhalation vapour 0,63 mg/L (0 h) LC50 inhalation mist 0,46 mg/L	Rat Rat
2,6-di-tert-butyl-p-cresol CAS: 128-37-0 EC: 204-881-4	LD50 oral >6000 mg/kg LD50 dermal >2000 mg/kg LC50 inhalation	Rat Rat
L-p-mentha-1(6),8-dien-2-one CAS: 6485-40-1 EC: 229-352-5	LD50 oral 5400 mg/kg LD50 dermal 3800 mg/kg LC50 inhalation	Rat
benzyl alcohol CAS: 100-51-6 EC: 202-859-9	LD50 oral 1200 mg/kg LD50 dermal LC50 inhalation	
Anisaldehyde CAS: 123-11-5 EC: 204-602-6	LD50 oral 3210 mg/kg LD50 dermal >5000 mg/kg LC50 inhalation	Rat Rabbit
Dimethylcyclohex-3-ene-1-carbaldehyde CAS: 27939-60-2 EC: 248-742-6	LD50 oral 3900 mg/kg LD50 dermal 2630 mg/kg LC50 inhalation	Rat
Isopentyl acetate CAS: 123-92-2 EC: 204-662-3	LD50 oral 7400 mg/kg LD50 dermal LC50 inhalation	Rat
Isoeugenol CAS: 97-54-1 EC: 202-590-7	LD50 oral 1500 mg/kg LD50 dermal 1100 mg/kg LC50 inhalation	Rat Rat

\*\* Changes with regards to the previous version

- CONTINUED ON NEXT PAGE -

**ESENCIA 18387**  
**ART. COMERCIAL RIKURA**

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

Identification	Acute toxicity		Genus
Ethyl acetate	LD50 oral	4100 mg/kg	Rat
CAS: 141-78-6	LD50 dermal	20000 mg/kg	Rabbit
EC: 205-500-4	LC50 inhalation		

**11.2 Information on other hazards:**

**Endocrine disrupting properties**

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

**Other information**

Not relevant

\*\* Changes with regards to the previous version

**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
Hexyl cinnam-aldehyde	LC50 >0.1 - 1 mg/L (96 h)		Fish
CAS: 101-86-0	EC50 >0.1 - 1 mg/L (48 h)		Crustacean
EC: 202-983-3	EC50 >0.1 - 1 mg/L (72 h)		Algae
Benzyl acetate	LC50 Not relevant		
CAS: 140-11-4	EC50 17 mg/L (48 h)	Daphnia magna	Crustacean
EC: 205-399-7	EC50 110 mg/L (72 h)	Desmodesmus subspicatus	Algae
(3E)-Oxacyclohexadec-3-en-2-one	LC50 >0.1 - 1 mg/L (96 h)		Fish
CAS: 34902-57-3	EC50 >0.1 - 1 mg/L (48 h)		Crustacean
EC: 422-320-3	EC50 >0.1 - 1 mg/L (72 h)		Algae
Benzyl salicylate	LC50 1,03 mg/L (96 h)	Brachydanio rerio	Fish
CAS: 118-58-1	EC50 1,2 mg/L (48 h)	Daphnia magna	Crustacean
EC: 204-262-9	EC50 1,3 mg/L (72 h)	Selenastrum capricornutum	Algae
2-phenylethanol	LC50 Not relevant		
CAS: 60-12-8	EC50 330 mg/L (24 h)	Daphnia magna	Crustacean
EC: 200-456-2	EC50 490 mg/L (72 h)	Scenedesmus subspicatus	Algae
2-tert-butylcyclohexyl acetate	LC50 >1 - 10 mg/L (96 h)		Fish
CAS: 88-41-5	EC50 >1 - 10 mg/L (48 h)		Crustacean
EC: 201-828-7	EC50 >1 - 10 mg/L (72 h)		Algae
Tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans)	LC50 Not relevant		
CAS: 63500-71-0	EC50 320 mg/L (48 h)	Daphnia magna	Crustacean
EC: 405-040-6	EC50 Not relevant		
Coumarin	LC50 Not relevant		
CAS: 91-64-5	EC50 30 mg/L (48 h)	Daphnia magna	Crustacean
EC: 202-086-7	EC50 Not relevant		
3-p-cumenyl-2-methylpropionaldehyde	LC50 1,092 mg/L (96 h)	N/A	Fish
CAS: 103-95-7	EC50 1,4 mg/L (48 h)	Daphnia magna	Crustacean
EC: 203-161-7	EC50 3,8 mg/L (72 h)	Pseudokirchneriella subcapitata	Algae
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl) ethan-1-one	LC50 >0.1 - 1 mg/L (96 h)		Fish
CAS: 54464-57-2	EC50 >0.1 - 1 mg/L (48 h)		Crustacean
EC: 259-174-3	EC50 >0.1 - 1 mg/L (72 h)		Algae

\*\* Changes with regards to the previous version

- CONTINUED ON NEXT PAGE -

**ESENCIA 18387**  
**ART. COMERCIAL RIKURA**

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

Identification		Concentration	Species	Genus
Nerol	LC50	20 mg/L (96 h)	Danio rerio	Fish
CAS: 106-25-2	EC50	32 mg/L (48 h)	Daphnia magna	Crustacean
EC: 203-378-7	EC50	10 mg/L (72 h)	Pseudokirchneriella subcapitata	Algae
3-Methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one	LC50	1,428 mg/L (96 h)	Oncorhynchus mykiss	Fish
CAS: 127-51-5	EC50	4,7 mg/L (48 h)	Daphnia magna	Crustacean
EC: 204-846-3	EC50	20 mg/L (72 h)	Desmodesmus subspicatus	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		
Cinnamyl alcohol	LC50	9 mg/L (96 h)	Danio rerio	Fish
CAS: 104-54-1	EC50	7,7 mg/L (48 h)	Daphnia magna	Crustacean
EC: 203-212-3	EC50	19,7 mg/L (72 h)	Desmodesmus subspicatus	Algae
(±) trans-3,3-dimethyl-5-(2,2,3-trimethyl-cyclopent-3-en-1-yl)-pent-4-en-2-ol	LC50	>0.1 - 1 mg/L (96 h)		Fish
CAS: 107898-54-4	EC50	>0.1 - 1 mg/L (48 h)		Crustacean
EC: 411-580-3	EC50	>0.1 - 1 mg/L (72 h)		Algae
Undec-10-enal	LC50	>10 - 100 mg/L (96 h)		Fish
CAS: 112-45-8	EC50	>10 - 100 mg/L (48 h)		Crustacean
EC: 203-973-1	EC50	>10 - 100 mg/L (72 h)		Algae
Allyl (3-methylbutoxy)acetate	LC50	0,77 mg/L (96 h)	N/A	Fish
CAS: 67634-00-8	EC50	5,09 mg/L (48 h)	Daphnia magna	Crustacean
EC: 266-803-5	EC50	2,06 mg/L (72 h)	Pseudokirchneriella subcapitata	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
3-(4-tert-butylphenyl)propionaldehyde	LC50	>10 - 100 mg/L (96 h)		Fish
CAS: 18127-01-0	EC50	>10 - 100 mg/L (48 h)		Crustacean
EC: 242-016-2	EC50	>10 - 100 mg/L (72 h)		Algae
L-p-mentha-1(6),8-dien-2-one	LC50	6,1 mg/L (96 h)	Oncorhynchus mykiss	Fish
CAS: 6485-40-1	EC50	38 mg/L (48 h)	Daphnia magna	Crustacean
EC: 229-352-5	EC50	19 mg/L (72 h)	Pseudokirchneriella subcapitata	Algae
benzyl alcohol	LC50	646 mg/L (48 h)	Leuciscus idus	Fish
CAS: 100-51-6	EC50	400 mg/L (24 h)	Daphnia magna	Crustacean
EC: 202-859-9	EC50	79 mg/L (3 h)	Scenedesmus subspicatus	Algae
Anisaldehyde	LC50	148,32 mg/L (48 h)	Leuciscus idus	Fish
CAS: 123-11-5	EC50	82,8 mg/L (48 h)	Daphnia magna	Crustacean
EC: 204-602-6	EC50	61 mg/L (72 h)	Pseudokirchneriella subcapitata	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
Isopentyl acetate	LC50	Not relevant		
CAS: 123-92-2	EC50	42 mg/L (48 h)	Daphnia magna	Crustacean
EC: 204-662-3	EC50	Not relevant		
Ethyl acetate	LC50	230 mg/L (96 h)	Pimephales promelas	Fish
CAS: 141-78-6	EC50	717 mg/L (48 h)	Daphnia magna	Crustacean
EC: 205-500-4	EC50	3300 mg/L (48 h)	Scenedesmus subspicatus	Algae
Damascenone	LC50	>1 - 10 mg/L (96 h)		Fish
CAS: 23696-85-7	EC50	>1 - 10 mg/L (48 h)		Crustacean
EC: 245-833-2	EC50	>1 - 10 mg/L (72 h)		Algae

**Chronic toxicity:**

\*\* Changes with regards to the previous version

- CONTINUED ON NEXT PAGE -

**ESENCIA 18387**  
**ART. COMERCIAL RIKURA**

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

Identification		Concentration	Species	Genus
Benzyl acetate	NOEC	0,92 mg/L	Oryzias latipes	Fish
CAS: 140-11-4 EC: 205-399-7	NOEC	Not relevant		
3-p-cumenyl-2-methylpropionaldehyde	NOEC	Not relevant		
CAS: 103-95-7 EC: 203-161-7	NOEC	0,71 mg/L	Daphnia magna	Crustacean
benzyl alcohol	NOEC	48,897 mg/L	N/A	Fish
CAS: 100-51-6 EC: 202-859-9	NOEC	51 mg/L	Daphnia magna	Crustacean
Anisaldehyde	NOEC	Not relevant		
CAS: 123-11-5 EC: 204-602-6	NOEC	0,71 mg/L	Daphnia magna	Crustacean
Ethyl acetate	NOEC	9,65 mg/L	Pimephales promelas	Fish
CAS: 141-78-6 EC: 205-500-4	NOEC	2,4 mg/L	Daphnia magna	Crustacean

**12.2 Persistence and degradability:**

**Substance-specific information:**

Identification		Degradability		Biodegradability	
Benzyl acetate	BOD5	Not relevant	Concentration	10 mg/L	
CAS: 140-11-4	COD	Not relevant	Period	28 days	
EC: 205-399-7	BOD5/COD	Not relevant	% Biodegradable	100 %	
Benzyl salicylate	BOD5	Not relevant	Concentration	100 mg/L	
CAS: 118-58-1	COD	Not relevant	Period	28 days	
EC: 204-262-9	BOD5/COD	Not relevant	% Biodegradable	93 %	
Linalool	BOD5	Not relevant	Concentration	100 mg/L	
CAS: 78-70-6	COD	Not relevant	Period	28 days	
EC: 201-134-4	BOD5/COD	Not relevant	% Biodegradable	90 %	
2-phenylethanol	BOD5	Not relevant	Concentration	100 mg/L	
CAS: 60-12-8	COD	Not relevant	Period	14 days	
EC: 200-456-2	BOD5/COD	Not relevant	% Biodegradable	87 %	
Tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans)	BOD5	Not relevant	Concentration	10 mg/L	
CAS: 63500-71-0	COD	Not relevant	Period	28 days	
EC: 405-040-6	BOD5/COD	Not relevant	% Biodegradable	10 %	
Coumarin	BOD5	Not relevant	Concentration	100 mg/L	
CAS: 91-64-5	COD	Not relevant	Period	14 days	
EC: 202-086-7	BOD5/COD	Not relevant	% Biodegradable	100 %	
3-p-cumenyl-2-methylpropionaldehyde	BOD5	Not relevant	Concentration	Not relevant	
CAS: 103-95-7	COD	Not relevant	Period	28 days	
EC: 203-161-7	BOD5/COD	Not relevant	% Biodegradable	65,5 %	
Geraniol	BOD5	Not relevant	Concentration	100 mg/L	
CAS: 106-24-1	COD	Not relevant	Period	21 days	
EC: 203-377-1	BOD5/COD	Not relevant	% Biodegradable	70 %	
Nerol	BOD5	Not relevant	Concentration	2 mg/L	
CAS: 106-25-2	COD	Not relevant	Period	28 days	
EC: 203-378-7	BOD5/COD	Not relevant	% Biodegradable	90 %	
3-Methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one	BOD5	Not relevant	Concentration	4 mg/L	
CAS: 127-51-5	COD	Not relevant	Period	28 days	
EC: 204-846-3	BOD5/COD	Not relevant	% Biodegradable	42,51 %	
d-limonene	BOD5	Not relevant	Concentration	10 mg/L	
CAS: 5989-27-5	COD	Not relevant	Period	28 days	
EC: 227-813-5	BOD5/COD	Not relevant	% Biodegradable	71,4 %	
Cinnamyl alcohol	BOD5	Not relevant	Concentration	4 mg/L	
CAS: 104-54-1	COD	Not relevant	Period	28 days	
EC: 203-212-3	BOD5/COD	Not relevant	% Biodegradable	51,52 %	

\*\* Changes with regards to the previous version

- CONTINUED ON NEXT PAGE -

**ESENCIA 18387**  
**ART. COMERCIAL RIKURA**

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

Identification	Degradability		Biodegradability	
Allyl (3-methylbutoxy)acetate CAS: 67634-00-8 EC: 266-803-5	BOD5	Not relevant	Concentration	240 mg/L
	COD	Not relevant	Period	13 days
	BOD5/COD	Not relevant	% Biodegradable	78 %
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 %
L-p-mentha-1(6),8-dien-2-one CAS: 6485-40-1 EC: 229-352-5	BOD5	Not relevant	Concentration	100 mg/L
	COD	Not relevant	Period	28 days
	BOD5/COD	Not relevant	% Biodegradable	90 %
benzyl alcohol CAS: 100-51-6 EC: 202-859-9	BOD5	Not relevant	Concentration	100 mg/L
	COD	Not relevant	Period	14 days
	BOD5/COD	Not relevant	% Biodegradable	94 %
Anisaldehyde CAS: 123-11-5 EC: 204-602-6	BOD5	Not relevant	Concentration	20 mg/L
	COD	Not relevant	Period	6 days
	BOD5/COD	Not relevant	% Biodegradable	97 %
Ethyl acetate CAS: 141-78-6 EC: 205-500-4	BOD5	1,36 g O2/g	Concentration	100 mg/L
	COD	1,69 g O2/g	Period	14 days
	BOD5/COD	0,8	% Biodegradable	83 %

**12.3 Bioaccumulative potential:**

**Substance-specific information:**

Identification	Bioaccumulation potential	
Hexyl cinnam-aldehyde CAS: 101-86-0 EC: 202-983-3	BCF	17
	Pow Log	
	Potential	Low
Benzyl acetate CAS: 140-11-4 EC: 205-399-7	BCF	8
	Pow Log	1.96
	Potential	Low
Benzyl salicylate CAS: 118-58-1 EC: 204-262-9	BCF	311
	Pow Log	4
	Potential	High
Linalool CAS: 78-70-6 EC: 201-134-4	BCF	
	Pow Log	2.97
	Potential	
2-phenylethanol CAS: 60-12-8 EC: 200-456-2	BCF	6
	Pow Log	1.36
	Potential	Low
Coumarin CAS: 91-64-5 EC: 202-086-7	BCF	10
	Pow Log	1.39
	Potential	Low
3-p-cumenyl-2-methylpropionaldehyde CAS: 103-95-7 EC: 203-161-7	BCF	102
	Pow Log	3.05
	Potential	High
Geraniol CAS: 106-24-1 EC: 203-377-1	BCF	110
	Pow Log	3.56
	Potential	High
Nerol CAS: 106-25-2 EC: 203-378-7	BCF	44
	Pow Log	2.76
	Potential	Moderate
3-Methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one CAS: 127-51-5 EC: 204-846-3	BCF	
	Pow Log	3.49
	Potential	

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- CONTINUED ON NEXT PAGE -

**ESENCIA 18387**  
**ART. COMERCIAL RIKURA**

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

Identification	Bioaccumulation potential
d-limonene CAS: 5989-27-5 EC: 227-813-5	BCF Pow Log Potential 4.83
Cinnamyl alcohol CAS: 104-54-1 EC: 203-212-3	BCF Pow Log Potential 1.45
Allyl (3-methylbutoxy)acetate CAS: 67634-00-8 EC: 266-803-5	BCF Pow Log Potential 1.85
2,6-di-tert-butyl-p-cresol CAS: 128-37-0 EC: 204-881-4	BCF Pow Log Potential 1365 5.1 Very High
benzyl alcohol CAS: 100-51-6 EC: 202-859-9	BCF Pow Log Potential 0.3 1.1 Low
Anisaldehyde CAS: 123-11-5 EC: 204-602-6	BCF Pow Log Potential 1
Isopentyl acetate CAS: 123-92-2 EC: 204-662-3	BCF Pow Log Potential 10 Low
Ethyl acetate CAS: 141-78-6 EC: 205-500-4	BCF Pow Log Potential 30 0.73 Moderate

**12.4 Mobility in soil:**

Identification	Absorption/desorption	Volatility
Benzyl acetate CAS: 140-11-4 EC: 205-399-7	Koc Conclusion Surface tension	Not relevant Henry Dry soil Moist soil Not relevant
	Benzyl salicylate CAS: 118-58-1 EC: 204-262-9	Koc Conclusion Surface tension 5600 Immobil Dry soil Moist soil Not relevant
	2-phenylethanol CAS: 60-12-8 EC: 200-456-2	Koc Conclusion Surface tension Not relevant Not relevant 3,807E-2 N/m (25 °C) Moist soil Not relevant
Tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans) CAS: 63500-71-0 EC: 405-040-6	Koc Conclusion Surface tension	42 Henry Dry soil Moist soil 1,71E-3 Pa·m <sup>3</sup> /mol Not relevant Not relevant
	Coumarin CAS: 91-64-5 EC: 202-086-7	Koc Conclusion Surface tension 42 Henry Dry soil Moist soil Not relevant Not relevant
	Nerol CAS: 106-25-2 EC: 203-378-7	Koc Conclusion Surface tension 94 High Dry soil Moist soil Not relevant Not relevant
3-Methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one CAS: 127-51-5 EC: 204-846-3	Koc Conclusion Surface tension	3061.96 Henry Dry soil Moist soil Not relevant Not relevant
	d-limonene CAS: 5989-27-5 EC: 227-813-5	Koc Conclusion Surface tension 6324 Immobil Dry soil Moist soil 2,675E-2 N/m (25 °C) Yes Yes

\*\* Changes with regards to the previous version

- CONTINUED ON NEXT PAGE -

**ESENCIA 18387**  
**ART. COMERCIAL RIKURA**

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

Identification	Absorption/desorption			Volatility
Cinnamyl alcohol CAS: 104-54-1 EC: 203-212-3	Koc Conclusion Surface tension	116.94 High Not relevant	Henry Dry soil Moist soil	Not relevant Not relevant Not relevant
Allyl (3-methylbutoxy)acetate CAS: 67634-00-8 EC: 266-803-5	Koc Conclusion Surface tension	80 Very High Not relevant	Henry Dry soil Moist soil	Not relevant 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
benzyl alcohol CAS: 100-51-6 EC: 202-859-9	Koc Conclusion Surface tension	Not relevant Not relevant 3,679E-2 N/m (25 °C)	Henry Dry soil Moist soil	Not relevant Not relevant Not relevant
Anisaldehyde CAS: 123-11-5 EC: 204-602-6	Koc Conclusion Surface tension	10 Very High Not relevant	Henry Dry soil Moist soil	0E+0 Pa·m <sup>3</sup> /mol Not relevant Not relevant
Isopentyl acetate CAS: 123-92-2 EC: 204-662-3	Koc Conclusion Surface tension	70 Very High 2,388E-2 N/m (25 °C)	Henry Dry soil Moist soil	59,78 Pa·m <sup>3</sup> /mol Not relevant Yes
Ethyl acetate CAS: 141-78-6 EC: 205-500-4	Koc Conclusion Surface tension	59 Very High 2,324E-2 N/m (25 °C)	Henry Dry soil Moist soil	13,58 Pa·m <sup>3</sup> /mol Yes Yes

**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

\*\* Changes with regards to the previous version

**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, 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:**

- CONTINUED ON NEXT PAGE -

**ESENCIA 18387**  
**ART. COMERCIAL RIKURA**

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

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. (Hexyl cinnam-aldehyde)
- 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:



- 14.1 UN number or ID number:** UN3082
- 14.2 UN proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Hexyl cinnam-aldehyde)
- 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. (Hexyl cinnam-aldehyde)
- 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:**

- CONTINUED ON NEXT PAGE -

**ESENCIA 18387**  
**ART. COMERCIAL RIKURA**

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

- Article 95, REGULATION (EU) No 528/2012: *benzyl alcohol (100-51-6) - PT: (6) ; Geraniol (106-24-1) - PT: (18,19)*
- 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
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.:**

COMPOSITION/INFORMATION ON INGREDIENTS (SECTION 3, SECTION 11, SECTION 12):

- New declared substances
  - benzyl alcohol (100-51-6)
  - Anisaldehyde (123-11-5)

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

- Substances contained in EUH208:
  - New declared substances
    - benzyl alcohol (100-51-6)

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

- H411: Toxic to aquatic life with long lasting effects.
- H317: May cause an allergic skin reaction.
- H318: Causes serious eye damage.
- H315: Causes skin 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:**

**ESENCIA 18387**  
**ART. COMERCIAL RIKURA**

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

Acute Tox. 4: H302 - Harmful if swallowed.  
Acute Tox. 4: H302+H312 - Harmful if swallowed or 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. 2: H225 - Highly flammable liquid and vapour.  
Flam. Liq. 3: H226 - Flammable liquid and vapour.  
Repr. 2: H361 - Suspected of damaging fertility or the unborn child.  
Repr. 2: H361fd - Suspected of damaging fertility. Suspected of damaging the unborn child.  
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 RE 2: H373 - May cause damage to organs through prolonged or repeated exposure (Oral).  
STOT RE 2: H373 - May cause damage to organs through prolonged or repeated exposure.  
STOT SE 3: H336 - May cause drowsiness or dizziness.

**Classification procedure:**

Aquatic Chronic 2: Calculation method  
Skin Sens. 1A: Calculation method  
Eye Dam. 1: Calculation method  
Skin Irrit. 2: Calculation method

**Advice related to training:**

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

**Principal bibliographical sources:**

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

**Abbreviations and acronyms:**

ADR: European agreement concerning the international carriage of dangerous goods by road  
IMDG: International maritime dangerous goods code  
IATA: International Air Transport Association  
ICAO: International Civil Aviation Organisation  
COD: Chemical Oxygen Demand  
BOD5: 5day biochemical oxygen demand  
BCF: Bioconcentration factor  
LD50: Lethal Dose 50  
LC50: Lethal Concentration 50  
EC50: Effective concentration 50  
LogPOW: Octanolwater partition coefficient  
Koc: Partition coefficient of organic carbon  
UFI: unique formula identifier  
IARC: International Agency for Research on Cancer

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

- END OF SAFETY DATA SHEET -