


**ESENCIA 17176**  
**ART. COMERCIAL MIDNIGHT JASMINE****SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

- 1.1 Product identifier:** ESENCIA 17176  
ART. COMERCIAL MIDNIGHT JASMINE
- Other means of identification:**
- UFI:** HD9C-F03U-W007-C3C9
- 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 3: Hazardous to the aquatic environment, long-term hazard, Category 3, H412  
Eye Irrit. 2: Eye irritation, Category 2, H319  
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:**
- Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects.  
Eye Irrit. 2: H319 - Causes serious eye irritation.  
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.  
P261: Avoid breathing vapours  
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.  
P501: Dispose of contents/container according to the separated collection system used in your municipality.
- Supplementary information:**
- Contains 2-benzylideneheptanal, Geraniol, Lemon, oil, Citronellol, d-limonene, 3-p-cumenyl-2-methylpropionaldehyde, 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8-tetramethyl-2-naphthyl)ethan-1-one, Coumarin, 2-(4-tert-Butylbenzyl)propionaldehyde, Lysmeral technisch, 1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one.
- Substances that contribute to the classification**
- Hexyl cinnam-aldehyde; Linalool; Hydroxy-citronellal; Linalyl acetate

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

**UFI:** HD9C-F03U-W007-C3C9

**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: 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 5 - <10 %
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 5 - <10 %
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 2,5 - <5 %
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 2,5 - <5 %
CAS: 18479-58-8 EC: 242-362-4 Index: Not relevant REACH: 01-2119457274-37-XXXX	<b>2,6-dimethyloct-7-en-2-ol<sup>(1)</sup></b> Regulation 1272/2008 Eye Irrit. 2: H319; Skin Irrit. 2: H315; STOT SE 3: H336 - Warning	Self-classified 1 - <2,5 %
CAS: 107-75-5 EC: 203-518-7 Index: Not relevant REACH: 01-2119973482-31-XXXX	<b>Hydroxy-citronellal<sup>(1)</sup></b> Regulation 1272/2008 Eye Irrit. 2: H319; Skin Sens. 1B: H317 - Warning	Self-classified 1 - <2,5 %
CAS: 98-55-5 EC: 202-680-6 Index: Not relevant REACH: 01-2119980717-23-XXXX	<b>P-menth-1-en-8-ol<sup>(1)</sup></b> Regulation 1272/2008 Eye Irrit. 2: H319; Skin Irrit. 2: H315 - Warning	Self-classified 1 - <2,5 %
CAS: 115-95-7 EC: 204-116-4 Index: Not relevant REACH: 01-2119454789-19-XXXX	<b>Linalyl acetate<sup>(1)</sup></b> Regulation 1272/2008 Eye Irrit. 2: H319; Skin Irrit. 2: H315; Skin Sens. 1B: H317 - Warning	Self-classified 1 - <2,5 %
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 1 - <2,5 %
CAS: 122-40-7 EC: 204-541-5 Index: Not relevant REACH: 01-2120740487-49-XXXX	<b>2-benzylideneheptanal<sup>(1)</sup></b> Regulation 1272/2008 Aquatic Acute 1: H400; Aquatic Chronic 2: H411; Skin Sens. 1: H317 - Warning	Self-classified 1 - <2,5 %

<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 - <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: 84929-31-7 EC: 284-515-8 Index: Not relevant REACH: 01-2119495512-35-XXXX	<b>Lemon, oil<sup>(1)</sup></b> Regulation 1272/2008 Aquatic Chronic 2: H411; Asp. Tox. 1: H304; Flam. Liq. 3: H226; Skin Irrit. 2: H315; Skin Sens. 1: H317 - Danger	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: 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 %
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 %
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: 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 <1 %
CAS: 1222-05-5 EC: 214-946-9 Index: 603-212-00-7 REACH: 01-2119488227-29-XXXX	<b>1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran<sup>(1)</sup></b> Regulation 1272/2008 Aquatic Acute 1: H400; Aquatic Chronic 1: H410 - Warning	ATP ATP01 <1 %
CAS: 1506-02-1 EC: 216-133-4 Index: Not relevant REACH: 01-2119539433-40-XXXX	<b>1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one<sup>(1)</sup></b> Regulation 1272/2008 Acute Tox. 4: H302; Aquatic Acute 1: H400; Aquatic Chronic 1: H410 - Warning	Self-classified <1 %
CAS: 80-54-6 EC: 201-289-8 Index: 605-041-00-3 REACH: 01-2119485965-18-XXXX	<b>2-(4-tert-Butylbenzyl)propionaldehyde, Lysmeral technisch<sup>(1)</sup></b> Regulation 1272/2008 Acute Tox. 4: H302; Aquatic Chronic 3: H412; Repr. 1B: H360Fd; Skin Irrit. 2: H315; Skin Sens. 1B: H317 - Danger	Self-classified <1 %
CAS: 28219-61-6 EC: 248-908-8 Index: Not relevant REACH: Not relevant	<b>2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol<sup>(1)</sup></b> Regulation 1272/2008 Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Eye Irrit. 2: H319 - Warning	Self-classified <1 %
CAS: 57378-68-4 EC: 260-709-8 Index: Not relevant REACH: Not relevant	<b>1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one<sup>(1)</sup></b> Regulation 1272/2008 Acute Tox. 4: H302; Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Skin Irrit. 2: H315; Skin Sens. 1A: 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	Acute 1
CAS: 5989-27-5 EC: 227-813-5	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:

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

Identification	Acute toxicity		Genus
2-phenylethanol CAS: 60-12-8 EC: 200-456-2	LD50 oral	1610 mg/kg	Rat
	LD50 dermal	Not relevant	
	LC50 inhalation vapour	Not relevant	
Coumarin CAS: 91-64-5 EC: 202-086-7	LD50 oral	500 mg/kg	Rat
	LD50 dermal	Not relevant	
	LC50 inhalation vapour	Not relevant	
1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one CAS: 1506-02-1 EC: 216-133-4	LD50 oral	920 mg/kg	Rat
	LD50 dermal	Not relevant	
	LC50 inhalation vapour	Not relevant	
2-(4-tert-Butylbenzyl)propionaldehyde, Lysmeral technisch CAS: 80-54-6 EC: 201-289-8	LD50 oral	1390 mg/kg	Rat
	LD50 dermal	Not relevant	
	LC50 inhalation vapour	Not relevant	
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one CAS: 57378-68-4 EC: 260-709-8	LD50 oral	1600 mg/kg	Rat
	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:**

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

**By eye contact:**

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

**By ingestion/aspiration:**

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

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

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

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

Not relevant

**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

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**SECTION 5: FIREFIGHTING MEASURES (continued)**

**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:**

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.

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

D.- Technical recommendations to prevent environmental risks

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

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

A.- Specific storage requirements

- Minimum Temp.: 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

**DNEL (Workers):**

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
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
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
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
2,6-dimethyloct-7-en-2-ol CAS: 18479-58-8 EC: 242-362-4	Oral	Not relevant	Not relevant	Not relevant	Not relevant
	Dermal	Not relevant	Not relevant	20,8 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	73,5 mg/m <sup>3</sup>	Not relevant
Hydroxy-citronellal CAS: 107-75-5 EC: 203-518-7	Oral	Not relevant	Not relevant	Not relevant	Not relevant
	Dermal	Not relevant	Not relevant	1,9 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	18 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
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
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>
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

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

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
Lemon, oil CAS: 84929-31-7 EC: 284-515-8	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
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
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
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
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
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran CAS: 1222-05-5 EC: 214-946-9	Oral	Not relevant	Not relevant	Not relevant	Not relevant
	Dermal	Not relevant	Not relevant	36,7 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	13,5 mg/m <sup>3</sup>	Not relevant
1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one CAS: 1506-02-1 EC: 216-133-4	Oral	Not relevant	Not relevant	Not relevant	Not relevant
	Dermal	Not relevant	Not relevant	0,61 mg/kg	Not relevant
	Inhalation	0,525 mg/m <sup>3</sup>	Not relevant	0,175 mg/m <sup>3</sup>	Not relevant
2-(4-tert-Butylbenzyl)propionaldehyde, Lysmeral technisch CAS: 80-54-6 EC: 201-289-8	Oral	Not relevant	Not relevant	Not relevant	Not relevant
	Dermal	Not relevant	Not relevant	1,79 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	0,44 mg/m <sup>3</sup>	Not relevant

**DNEL (General population):**

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
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
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
Benzyl acetate CAS: 140-11-4 EC: 205-399-7	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
2,6-dimethyloct-7-en-2-ol CAS: 18479-58-8 EC: 242-362-4	Oral	Not relevant	Not relevant	12,5 mg/kg	Not relevant
	Dermal	Not relevant	Not relevant	12,5 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	21,7 mg/m <sup>3</sup>	Not relevant
Hydroxy-citronellal CAS: 107-75-5 EC: 203-518-7	Oral	Not relevant	Not relevant	0,6 mg/kg	Not relevant
	Dermal	Not relevant	Not relevant	1,1 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	5,4 mg/m <sup>3</sup>	Not relevant
Linalyl acetate CAS: 115-95-7 EC: 204-116-4	Oral	Not relevant	Not relevant	0,2 mg/kg	Not relevant
	Dermal	Not relevant	Not relevant	1,25 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	0,68 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

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**ART. COMERCIAL MIDNIGHT JASMINE**

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

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
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>
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
Lemon, oil CAS: 84929-31-7 EC: 284-515-8	Oral	Not relevant	Not relevant	3,33 mg/kg	Not relevant
	Dermal	Not relevant	Not relevant	3,33 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	5,8 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
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
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
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
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran CAS: 1222-05-5 EC: 214-946-9	Oral	Not relevant	Not relevant	2,3 mg/kg	Not relevant
	Dermal	Not relevant	Not relevant	22 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	4 mg/m <sup>3</sup>	Not relevant
1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl) ethan-1-one CAS: 1506-02-1 EC: 216-133-4	Oral	1,2 mg/kg	Not relevant	0,013 mg/kg	Not relevant
	Dermal	Not relevant	Not relevant	0,305 mg/kg	Not relevant
	Inhalation	0,131 mg/m <sup>3</sup>	Not relevant	0,043 mg/m <sup>3</sup>	Not relevant
2-(4-tert-Butylbenzyl)propionaldehyde, Lysmeral technisch CAS: 80-54-6 EC: 201-289-8	Oral	Not relevant	Not relevant	0,062 mg/kg	Not relevant
	Dermal	Not relevant	Not relevant	0,89 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	0,11 mg/m <sup>3</sup>	Not relevant

**PNEC:**

Identification				
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
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
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
2,6-dimethyloct-7-en-2-ol CAS: 18479-58-8 EC: 242-362-4	STP	10 mg/L	Fresh water	0,0278 mg/L
	Soil	0,103 mg/kg	Marine water	0,00278 mg/L
	Intermittent	0,278 mg/L	Sediment (Fresh water)	0,594 mg/kg
	Oral	0,111 g/kg	Sediment (Marine water)	0,059 mg/kg

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

Identification				
Hydroxy-citronellal CAS: 107-75-5 EC: 203-518-7	STP	10 mg/L	Fresh water	0,0316 mg/L
	Soil	0,011 mg/kg	Marine water	0,00316 mg/L
	Intermittent	0,316 mg/L	Sediment (Fresh water)	0,145 mg/kg
	Oral	Not relevant	Sediment (Marine water)	0,015 mg/kg
P-menth-1-en-8-ol CAS: 98-55-5 EC: 202-680-6	STP	2,6 mg/L	Fresh water	0,068 mg/L
	Soil	0,329 mg/kg	Marine water	0,0068 mg/L
	Intermittent	Not relevant	Sediment (Fresh water)	1,85 mg/kg
	Oral	Not relevant	Sediment (Marine water)	0,185 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
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
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
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
Lemon, oil CAS: 84929-31-7 EC: 284-515-8	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
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
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
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
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
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran CAS: 1222-05-5 EC: 214-946-9	STP	1 mg/L	Fresh water	0,0068 mg/L
	Soil	1,5 mg/kg	Marine water	0,00044 mg/L
	Intermittent	Not relevant	Sediment (Fresh water)	2 mg/kg
	Oral	20,4 g/kg	Sediment (Marine water)	0,394 mg/kg
1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one CAS: 1506-02-1 EC: 216-133-4	STP	2,2 mg/L	Fresh water	0,0022 mg/L
	Soil	0,01 mg/kg	Marine water	0,00022 mg/L
	Intermittent	0,0061 mg/L	Sediment (Fresh water)	1,72 mg/kg
	Oral	0,0011 g/kg	Sediment (Marine water)	0,345 mg/kg

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

Identification				
2-(4-tert-Butylbenzyl)propionaldehyde, Lysmeral technisch	STP	10 mg/L	Fresh water	0,004 mg/L
CAS: 80-54-6	Soil	0,103 mg/kg	Marine water	0 mg/L
EC: 201-289-8	Intermittent	0,024 mg/L	Sediment (Fresh water)	0,528 mg/kg
	Oral	Not relevant	Sediment (Marine water)	0,053 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):	10,37 % weight
V.O.C. density at 20 °C:	97,49 kg/m <sup>3</sup> (97,49 g/L)
Average carbon number:	9,67
Average molecular weight:	151,84 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:	307 °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:	8 Pa
Vapour pressure at 50 °C:	65,97 Pa (0,07 kPa)
Evaporation rate at 20 °C:	Not relevant *

**Product description:**

Density at 20 °C:	940,1 kg/m <sup>3</sup>
Relative density at 20 °C:	0,929 - 0,949
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:	131 °C
Flammability (solid, gas):	Not relevant *
Autoignition temperature:	235 °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:	1,462 - 1,482

\*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	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):

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

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

- Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for the effects mentioned. For more information see section 3.  
IARC: Benzyl acetate (3); Coumarin (3); d-limonene (3); 2,6-di-tert-butyl-p-cresol (3); Bis(2-ethylhexyl) adipate (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:

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**ESENCIA 17176**  
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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	
Benzyl acetate CAS: 140-11-4 EC: 205-399-7	LD50 oral	2490 mg/kg	Rat
	LD50 dermal		
	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		
2-phenylethanol CAS: 60-12-8 EC: 200-456-2	LD50 oral	1610 mg/kg	Rat
	LD50 dermal	2100 mg/kg	Rabbit
	LC50 inhalation		
2-benzylideneheptanal CAS: 122-40-7 EC: 204-541-5	LD50 oral	3730 mg/kg	Rat
	LD50 dermal		
	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		
2,6-dimethyloct-7-en-2-ol CAS: 18479-58-8 EC: 242-362-4	LD50 oral	3600 mg/kg	
	LD50 dermal		
	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		
Lemon, oil CAS: 84929-31-7 EC: 284-515-8	LD50 oral	>5000 mg/kg	Rat
	LD50 dermal	10000 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		
d-limonene CAS: 5989-27-5 EC: 227-813-5	LD50 oral	4400 mg/kg	Rat
	LD50 dermal	>5000 mg/kg	Rabbit
	LC50 inhalation		
P-menth-1-en-8-ol CAS: 98-55-5 EC: 202-680-6	LD50 oral	4300 mg/kg	Rat
	LD50 dermal	>5000 mg/kg	
	LC50 inhalation		
3-p-cumenyl-2-methylpropionaldehyde CAS: 103-95-7 EC: 203-161-7	LD50 oral	3810 mg/kg	Rat
	LD50 dermal		
	LC50 inhalation		

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

Identification	Acute toxicity		Genus
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		
Coumarin CAS: 91-64-5 EC: 202-086-7	LD50 oral	500 mg/kg	Rat
	LD50 dermal	>5000 mg/kg	
	LC50 inhalation		
1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one CAS: 1506-02-1 EC: 216-133-4	LD50 oral	920 mg/kg	Rat
	LD50 dermal	7940 mg/kg	Rabbit
	LC50 inhalation		
2-(4-tert-Butylbenzyl)propionaldehyde, Lysmeral technisch CAS: 80-54-6 EC: 201-289-8	LD50 oral	1390 mg/kg	Rat
	LD50 dermal	5100 mg/kg	Rabbit
	LC50 inhalation		
2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol CAS: 28219-61-6 EC: 248-908-8	LD50 oral	>5000 mg/kg	Rat
	LD50 dermal		
	LC50 inhalation		
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one CAS: 57378-68-4 EC: 260-709-8	LD50 oral	1600 mg/kg	Rat
	LD50 dermal		
	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

**SECTION 12: ECOLOGICAL INFORMATION**

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

Harmful to aquatic life with long lasting effects.

**12.1 Toxicity:**

**Acute toxicity:**

Identification	Concentration	Species	Genus
2-phenylethanol CAS: 60-12-8 EC: 200-456-2	LC50	Not relevant	
	EC50	330 mg/L (24 h)	Daphnia magna
	EC50	490 mg/L (72 h)	Scenedesmus subspicatus
Hexyl cinnam-aldehyde CAS: 101-86-0 EC: 202-983-3	LC50	>0.1 - 1 mg/L (96 h)	Fish
	EC50	>0.1 - 1 mg/L (48 h)	Crustacean
	EC50	>0.1 - 1 mg/L (72 h)	Algae
Benzyl acetate CAS: 140-11-4 EC: 205-399-7	LC50	Not relevant	
	EC50	17 mg/L (48 h)	Daphnia magna
	EC50	110 mg/L (72 h)	Desmodesmus subspicatus
P-menth-1-en-8-ol CAS: 98-55-5 EC: 202-680-6	LC50	10 mg/L (96 h)	Salmo gairdneri
	EC50	Not relevant	
	EC50	Not relevant	
Linalyl acetate CAS: 115-95-7 EC: 204-116-4	LC50	11 mg/L (96 h)	Cyprinus carpio
	EC50	15 mg/L (48 h)	Daphnia magna
	EC50	62 mg/L (72 h)	Desmodesmus subspicatus
Tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans) CAS: 63500-71-0 EC: 405-040-6	LC50	Not relevant	
	EC50	320 mg/L (48 h)	Daphnia magna
	EC50	Not relevant	

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**ESENCIA 17176**  
**ART. COMERCIAL MIDNIGHT JASMINE**

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

Identification		Concentration	Species	Genus
2-benzylideneheptanal	LC50	0,91 mg/L (96 h)	N/A	Fish
CAS: 122-40-7	EC50	0,28 mg/L (48 h)	Daphnia magna	Crustacean
EC: 204-541-5	EC50	Not relevant		
Lemon, oil	LC50	Not relevant		
CAS: 84929-31-7	EC50	Not relevant		
EC: 284-515-8	EC50	8 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		
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-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
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
Coumarin	LC50	Not relevant		
CAS: 91-64-5	EC50	30 mg/L (48 h)	Daphnia magna	Crustacean
EC: 202-086-7	EC50	Not relevant		
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran	LC50	0,95 mg/L (96 h)	Oryzias latipes	Fish
CAS: 1222-05-5	EC50	0,194 mg/L (48 h)	Daphnia magna	Crustacean
EC: 214-946-9	EC50	0,723 mg/L (72 h)	Pseudokirchneriella subcapitata	Algae
1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one	LC50	>0.1 - 1 mg/L (96 h)		Fish
CAS: 1506-02-1	EC50	>0.1 - 1 mg/L (48 h)		Crustacean
EC: 216-133-4	EC50	>0.1 - 1 mg/L (72 h)		Algae
2-(4-tert-Butylbenzyl)propionaldehyde, Lysmeral technisch	LC50	2 mg/L (96 h)	Danio rerio	Fish
CAS: 80-54-6	EC50	11 mg/L (48 h)	Daphnia magna	Crustacean
EC: 201-289-8	EC50	29 mg/L (72 h)	Desmodesmus subspicatus	Algae
2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol	LC50	1,1 mg/L (96 h)	Lepomis macrochirus	Fish
CAS: 28219-61-6	EC50	0,63 mg/L (48 h)	Daphnia magna	Crustacean
EC: 248-908-8	EC50	2,5 mg/L (96 h)	Selenastrum capricornutum	Algae
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one	LC50	>0.1 - 1 mg/L (96 h)		Fish
CAS: 57378-68-4	EC50	>0.1 - 1 mg/L (48 h)		Crustacean
EC: 260-709-8	EC50	>0.1 - 1 mg/L (72 h)		Algae

**Chronic toxicity:**

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		
2,6-dimethyloct-7-en-2-ol	NOEC	Not relevant		
CAS: 18479-58-8 EC: 242-362-4	NOEC	9,5 mg/L	Daphnia magna	Crustacean
3-p-cumenyl-2-methylpropionaldehyde	NOEC	Not relevant		
CAS: 103-95-7 EC: 203-161-7	NOEC	0,71 mg/L	Daphnia magna	Crustacean
2-(4-tert-Butylbenzyl)propionaldehyde, Lysmeral technisch	NOEC	0,2 mg/L	Pimephales promelas	Fish
CAS: 80-54-6 EC: 201-289-8	NOEC	Not relevant		

**12.2 Persistence and degradability:**

**Substance-specific information:**

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**ESENCIA 17176**  
**ART. COMERCIAL MIDNIGHT JASMINE**

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

Identification	Degradability		Biodegradability	
2-phenylethanol CAS: 60-12-8 EC: 200-456-2	BOD5	Not relevant	Concentration	100 mg/L
	COD	Not relevant	Period	14 days
	BOD5/COD	Not relevant	% Biodegradable	87 %
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 %
Benzyl acetate CAS: 140-11-4 EC: 205-399-7	BOD5	Not relevant	Concentration	10 mg/L
	COD	Not relevant	Period	28 days
	BOD5/COD	Not relevant	% Biodegradable	100 %
2,6-dimethyloct-7-en-2-ol CAS: 18479-58-8 EC: 242-362-4	BOD5	Not relevant	Concentration	10 mg/L
	COD	Not relevant	Period	28 days
	BOD5/COD	Not relevant	% Biodegradable	72 %
P-menth-1-en-8-ol CAS: 98-55-5 EC: 202-680-6	BOD5	Not relevant	Concentration	100 mg/L
	COD	Not relevant	Period	14 days
	BOD5/COD	Not relevant	% Biodegradable	84,6 %
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 %
Tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans) CAS: 63500-71-0 EC: 405-040-6	BOD5	Not relevant	Concentration	10 mg/L
	COD	Not relevant	Period	28 days
	BOD5/COD	Not relevant	% Biodegradable	10 %
2-benzylideneheptanal CAS: 122-40-7 EC: 204-541-5	BOD5	Not relevant	Concentration	100 mg/L
	COD	Not relevant	Period	28 days
	BOD5/COD	Not relevant	% Biodegradable	90 %
Geraniol CAS: 106-24-1 EC: 203-377-1	BOD5	Not relevant	Concentration	100 mg/L
	COD	Not relevant	Period	21 days
	BOD5/COD	Not relevant	% Biodegradable	70 %
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 %
3-p-cumenyl-2-methylpropionaldehyde CAS: 103-95-7 EC: 203-161-7	BOD5	Not relevant	Concentration	Not relevant
	COD	Not relevant	Period	28 days
	BOD5/COD	Not relevant	% Biodegradable	65,5 %
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 %
Coumarin CAS: 91-64-5 EC: 202-086-7	BOD5	Not relevant	Concentration	100 mg/L
	COD	Not relevant	Period	14 days
	BOD5/COD	Not relevant	% Biodegradable	100 %
2-(4-tert-Butylbenzyl)propionaldehyde, Lysmeral technisch CAS: 80-54-6 EC: 201-289-8	BOD5	Not relevant	Concentration	20 mg/L
	COD	Not relevant	Period	28 days
	BOD5/COD	Not relevant	% Biodegradable	81 %
2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol CAS: 28219-61-6 EC: 248-908-8	BOD5	Not relevant	Concentration	100 mg/L
	COD	Not relevant	Period	28 days
	BOD5/COD	Not relevant	% Biodegradable	0 %

**12.3 Bioaccumulative potential:**

**Substance-specific information:**

Identification	Bioaccumulation potential	
2-phenylethanol CAS: 60-12-8 EC: 200-456-2	BCF	6
	Pow Log	1.36
	Potential	Low

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**ESENCIA 17176**  
**ART. COMERCIAL MIDNIGHT JASMINE**

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

Identification	Bioaccumulation potential	
Hexyl cinnam-aldehyde CAS: 101-86-0 EC: 202-983-3	BCF Pow Log Potential	17  Low
Linalool CAS: 78-70-6 EC: 201-134-4	BCF Pow Log Potential	 2.97  
Benzyl acetate CAS: 140-11-4 EC: 205-399-7	BCF Pow Log Potential	8 1.96 Low
P-menth-1-en-8-ol CAS: 98-55-5 EC: 202-680-6	BCF Pow Log Potential	110 2.98 High
Linalyl acetate CAS: 115-95-7 EC: 204-116-4	BCF Pow Log Potential	174 3.9 High
2-benzylideneheptanal CAS: 122-40-7 EC: 204-541-5	BCF Pow Log Potential	 2.5  
Geraniol CAS: 106-24-1 EC: 203-377-1	BCF Pow Log Potential	110 3.56 High
d-limonene CAS: 5989-27-5 EC: 227-813-5	BCF Pow Log Potential	 4.83  
3-p-cumenyl-2-methylpropionaldehyde CAS: 103-95-7 EC: 203-161-7	BCF Pow Log Potential	102 3.05 High
2,6-di-tert-butyl-p-cresol CAS: 128-37-0 EC: 204-881-4	BCF Pow Log Potential	1365 5.1 Very High
Coumarin CAS: 91-64-5 EC: 202-086-7	BCF Pow Log Potential	10 1.39 Low
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran CAS: 1222-05-5 EC: 214-946-9	BCF Pow Log Potential	1584 5.9 Very High
1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one CAS: 1506-02-1 EC: 216-133-4	BCF Pow Log Potential	 5.7  
2-(4-tert-Butylbenzyl)propionaldehyde, Lysmeral technisch CAS: 80-54-6 EC: 201-289-8	BCF Pow Log Potential	275 4.2 High
2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol CAS: 28219-61-6 EC: 248-908-8	BCF Pow Log Potential	65 4.4 Moderate

**12.4 Mobility in soil:**

Identification	Absorption/desorption		Volatility	
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)	Henry Dry soil Moist soil	Not relevant Not relevant Not relevant

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**ESENCIA 17176**  
**ART. COMERCIAL MIDNIGHT JASMINE**

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

Identification	Absorption/desorption		Volatility	
Benzyl acetate CAS: 140-11-4 EC: 205-399-7	Koc Conclusion Surface tension	Not relevant Not relevant 3,558E-2 N/m (25 °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
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 Very High Not relevant	Henry Dry soil Moist soil	1,71E-3 Pa·m <sup>3</sup> /mol Not relevant Not relevant
2-benzylideneheptanal CAS: 122-40-7 EC: 204-541-5	Koc Conclusion Surface tension	974.98 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
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
Coumarin CAS: 91-64-5 EC: 202-086-7	Koc Conclusion Surface tension	42 Very High Not relevant	Henry Dry soil Moist soil	Not relevant Not relevant Not relevant
2-(4-tert-Butylbenzyl)propionaldehyde, Lysmeral technisch CAS: 80-54-6 EC: 201-289-8	Koc Conclusion Surface tension	1285 Low Not relevant	Henry Dry soil Moist soil	2,52 Pa·m <sup>3</sup> /mol Yes Yes
2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol CAS: 28219-61-6 EC: 248-908-8	Koc Conclusion Surface tension	870 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, 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

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**ESENCIA 17176**  
**ART. COMERCIAL MIDNIGHT JASMINE**

**SECTION 13: DISPOSAL CONSIDERATIONS (continued)**

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

**SECTION 14: TRANSPORT INFORMATION**

This product is not regulated for transport (ADR/RID,IMDG,IATA)

**SECTION 15: REGULATORY INFORMATION**

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

- Article 95, REGULATION (EU) No 528/2012: *Geraniol (106-24-1) - PT: (18,19)*
- Candidate substances for authorisation under the Regulation (EC) No 1907/2006 (REACH):  
*2-(4-tert-Butylbenzyl)propionaldehyde, Lysmeral technisch (80-54-6)*
- 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:**

Not relevant

**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.:**

Not relevant

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

H412: Harmful to aquatic life with long lasting effects.

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

H319: Causes serious eye irritation.

**Texts of the legislative phrases mentioned in section 3:**

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

**CLP Regulation (EC) No 1272/2008:**

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**ESENCIA 17176**  
**ART. COMERCIAL MIDNIGHT JASMINE**

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

Acute Tox. 4: H302 - Harmful if swallowed.  
Aquatic Acute 1: H400 - Very toxic to aquatic life.  
Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects.  
Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects.  
Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects.  
Asp. Tox. 1: H304 - May be fatal if swallowed and enters airways.  
Eye Dam. 1: H318 - Causes serious eye damage.  
Eye Irrit. 2: H319 - Causes serious eye irritation.  
Flam. Liq. 3: H226 - Flammable liquid and vapour.  
Repr. 1B: H360Fd - May damage 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 SE 3: H336 - May cause drowsiness or dizziness.

**Classification procedure:**

Aquatic Chronic 3: Calculation method  
Skin Irrit. 2: Calculation method  
Skin Sens. 1B: Calculation method  
Eye 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 -