FRA-164 - LIQUEUR CUBERDON

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

1.1 Product identifier: FRA-164 - LIQUEUR CUBERDON

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

Relevant uses: Product fragrance mixture

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:

Fleurs d'Arômes - Sandra Aris
3A, Avenue Berton
7333 Tertre - Hainaut - Belgique
Phone.: 0032479433347
fleursdaromes@hotmail.com
https://www.fleursdaromes.be/

1.4 Emergency telephone number: Centre antipoisons: 070/245.245

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture:

CLP Regulation (EC) No 1272/2008:

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

Acute Tox. 4: Acute inhalation toxicity, Category 4, H332
Aquatic Chronic 2: Hazardous to the aquatic environment, long-term hazard, Category 2, H411
Eye Irrit. 2: Eye irritation, Category 2, H319
Skin Sens. 1B: Sensitisation, skin, Category 1B, H317

2.2 Label elements:

CLP Regulation (EC) No 1272/2008:

Warning

Hazard statements:

Acute Tox. 4: H332 - Harmful if inhaled
Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects
Eye Irrit. 2: H319 - Causes serious eye 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
P264: Wash thoroughly after handling
P280: Wear protective gloves/protective clothing/eye protection/face protection
P302+P352: IF ON SKIN: Wash with plenty of water
P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing
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 (E)-1-(2,6,6-trimethyl-2-cyclohexen-1-yl)-2-buten-1-one, (r)-p-mentha-1,8-diene, 3-methylbutyl butyrate, Benzyl acetate, Pin-2(10)-ene, Pin-2(3)-ene, Piperonal, P-mentha-1,4(8)-diene

Acute Toxicity Estimate (ATE mix):

12,5 % (oral), 79,5 % (inhalation) of the mixture consists of ingredient(s) of unknown toxicity

UFI: F0F0-N02R-R003-NJU6

2.3 Other hazards:

Product fails to meet PBT/vPvB criteria

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance:

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS (continued)

Non-applicable

3.2 Mixture:

Chemical description: Mixture of substances

Components:

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

Identification	Chemical name/Classification		Concentration
CAS: 127-51-5 EC: 204-846-3 Index: Non-applicable REACH: 01-2120138569-45-XXXX	**3-Methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one**[1]	Self-classified	**25 - <50 %**
	Regulation 1272/2008	Aquatic Chronic 2: H411	
CAS: 140-11-4 EC: 205-399-7 Index: Non-applicable REACH: 01-2119638272-42-XXXX	**Benzyl acetate**[1]	Self-classified	**10 - <25 %**
	Regulation 1272/2008	Acute Tox. 4: H332; Aquatic Chronic 3: H412; Skin Sens. 1: H317 - Warning	
CAS: 106-27-4 EC: 203-380-8 Index: Non-applicable REACH: 01-2120762245-55-XXXX	**3-methylbutyl butyrate**[1]	Self-classified	**10 - <25 %**
	Regulation 1272/2008	Aquatic Acute 1: H400; Aquatic Chronic 2: H411; Flam. Liq. 3: H226; Skin Sens. 1: H317 - Warning	
CAS: 1335-46-2 EC: 215-635-0 Index: Non-applicable REACH: 01-2119471851-35-XXXX	**Ionone, methyl-**[1]	Self-classified	**5 - <10 %**
	Regulation 1272/2008	Aquatic Chronic 2: H411; Eye Irrit. 2: H319; Skin Irrit. 2: H315 - Warning	
CAS: 121-32-4 EC: 204-464-7 Index: Non-applicable REACH: 01-2119958961-24-XXXX	**3-ethoxy-4-hydroxybenzaldehyde**[1]	Self-classified	**2,5 - <5 %**
	Regulation 1272/2008	Acute Tox. 4: H332; Aquatic Acute 1: H400; Eye Irrit. 2: H319 - Warning	
CAS: 104-67-6 EC: 203-225-4 Index: Non-applicable REACH: 01-2119959333-34-XXXX	**Undecan-4-olide**[1]	Self-classified	**2,5 - <5 %**
	Regulation 1272/2008	Aquatic Chronic 3: H412	
CAS: 24720-09-0 EC: 246-430-4 Index: Non-applicable REACH: 01-2120105799-47-XXXX	**(E)-1-(2,6,6-trimethyl-2-cyclohexen-1-yl)-2-buten-1-one**[1]	Self-classified	**2,5 - <5 %**
	Regulation 1272/2008	Acute Tox. 4: H302; Skin Sens. 1B: H317 - Warning	
CAS: 106-02-5 EC: 203-354-6 Index: Non-applicable REACH: 01-2119987323-31-XXXX	**Pentadecan-15-olide**[1]	Self-classified	**2,5 - <5 %**
	Regulation 1272/2008	Aquatic Chronic 2: H411	
CAS: 120-57-0 EC: 204-409-7 Index: Non-applicable REACH: 01-2119983608-21-XXXX	**Piperonal**[1]	Self-classified	**1 - <2,5 %**
	Regulation 1272/2008	Acute Tox. 4: H332; Aquatic Chronic 2: H411; Skin Sens. 1B: H317 - Warning	
CAS: 5989-27-5 EC: 227-813-5 Index: Non-applicable REACH: 01-2119529223-47-XXXX	**(r)-p-mentha-1,8-diene**[1]	Self-classified	**1 - <2,5 %**
	Regulation 1272/2008	Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Asp. Tox. 1: H304; Flam. Liq. 3: H226; Skin Irrit. 2: H315; Skin Sens. 1: H317 - Danger	
CAS: 127-91-3 EC: 204-872-5 Index: Non-applicable REACH: 01-2119519230-54-XXXX	**Pin-2(10)-ene**[1]	Self-classified	**<1 %**
	Regulation 1272/2008	Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Asp. Tox. 1: H304; Flam. Liq. 3: H226; Skin Irrit. 2: H315; Skin Sens. 1B: H317 - Danger	
CAS: 99-85-4 EC: 202-794-6 Index: Non-applicable REACH: 01-2120780478-40-XXXX	**p-mentha-1,4-diene**[1]	Self-classified	**<1 %**
	Regulation 1272/2008	Aquatic Chronic 2: H411; Flam. Liq. 3: H226; Repr. 2: H361 - Warning	
CAS: 80-56-8 EC: 201-291-9 Index: Non-applicable REACH: 01-2119519223-49-XXXX	**Pin-2(3)-ene**[1]	Self-classified	**<1 %**
	Regulation 1272/2008	Acute Tox. 4: H302; Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Asp. Tox. 1: H304; Flam. Liq. 3: H226; Skin Irrit. 2: H315; Skin Sens. 1: H317 - Danger	
CAS: 123-35-3 EC: 204-622-5 Index: Non-applicable REACH: 01-2119514321-56-XXXX	**7-methyl-3-methyleneocta-1,6-diene**[1]	Self-classified	**<1 %**
	Regulation 1272/2008	Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Asp. Tox. 1: H304; Eye Irrit. 2: H319; Flam. Liq. 3: H226; Skin Irrit. 2: H315 - Danger	

[1] Substances presenting a health or environmental hazard which meet criteria laid down in Regulation (EU) No. 2015/830

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS (continued)

Identification	Chemical name/Classification		Concentration
CAS: 586-62-9 EC: 209-578-0 Index: Non-applicable REACH: 01-2119982325-32-XXXX	**P-mentha-1,4(8)-diene**[1]	Self-classified	<1 %
	Regulation 1272/2008	Aquatic Chronic 2: H411; Asp. Tox. 1: H304; Eye Irrit. 2: H319; Skin Irrit. 2: H315; Skin Sens. 1B: H317 - Danger 	

[1] Substances presenting a health or environmental hazard which meet criteria laid down in Regulation (EU) No. 2015/830

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

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures:

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

By inhalation:

Remove the person affected from the area of exposure, provide with fresh air and keep at rest. In serious cases such as cardiorespiratory failure, artificial resuscitation techniques will be necessary (mouth to mouth resuscitation, cardiac massage, oxygen supply, etc.) requiring immediate medical assistance.

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:

Non-applicable

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media:

Product is non-flammable under normal conditions of storage, manipulation and use, but the product contains flammable substances. In the case of inflammation as a result of improper manipulation, storage or use preferably use polyvalent powder extinguishers (ABC powder), in accordance with the Regulation on fire protection systems. IT IS NOT RECOMMENDED to use full jet water as an extinguishing agent.

5.2 Special hazards arising from the substance or mixture:

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

5.3 Advice for firefighters:

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

Additional provisions:

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

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

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SECTION 6: ACCIDENTAL RELEASE MEASURES (continued)

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. Destroy 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.

6.2 Environmental precautions:

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

6.3 Methods and material for containment and cleaning up:

It is recommended:

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

6.4 Reference to other sections:

See sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:

A.- Precautions for safe manipulation

Comply with the current legislation concerning the prevention of industrial risks. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

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

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. Avoid splashes and pulverizations. Consult section 10 for conditions and materials that should be avoided.

C.- Technical recommendations to prevent ergonomic and toxicological risks

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.- Technical measures for storage

Maximum time: 24 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

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

DNEL (Workers):

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
Benzyl acetate	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 140-11-4	Dermal	12,5 mg/kg	Non-applicable	6,25 mg/kg	Non-applicable
EC: 205-399-7	Inhalation	43,8 mg/m³	Non-applicable	21,9 mg/m³	Non-applicable

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
Ionone, methyl-	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 1335-46-2	Dermal	Non-applicable	Non-applicable	8,33 mg/kg	Non-applicable
EC: 215-635-0	Inhalation	Non-applicable	Non-applicable	29,4 mg/m³	Non-applicable
Undecan-4-olide	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 104-67-6	Dermal	Non-applicable	Non-applicable	5,38 mg/kg	Non-applicable
EC: 203-225-4	Inhalation	Non-applicable	Non-applicable	19 mg/m³	Non-applicable
Piperonal	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 120-57-0	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
EC: 204-409-7	Inhalation	Non-applicable	Non-applicable	3,5 mg/m³	Non-applicable
(r)-p-mentha-1,8-diene	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 5989-27-5	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
EC: 227-813-5	Inhalation	Non-applicable	Non-applicable	33,3 mg/m³	Non-applicable
Pin-2(10)-ene	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 127-91-3	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
EC: 204-872-5	Inhalation	Non-applicable	Non-applicable	5,98 mg/m³	Non-applicable
Pin-2(3)-ene	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 80-56-8	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
EC: 201-291-9	Inhalation	Non-applicable	Non-applicable	5,98 mg/m³	Non-applicable
7-methyl-3-methyleneocta-1,6-diene	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 123-35-3	Dermal	Non-applicable	Non-applicable	0,83 mg/kg	Non-applicable
EC: 204-622-5	Inhalation	Non-applicable	Non-applicable	5,83 mg/m³	Non-applicable
P-mentha-1,4(8)-diene	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 586-62-9	Dermal	Non-applicable	Non-applicable	0,52 mg/kg	Non-applicable
EC: 209-578-0	Inhalation	Non-applicable	Non-applicable	3,6 mg/m³	Non-applicable

DNEL (General population):

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
Benzyl acetate	Oral	6,25 mg/kg	Non-applicable	3,125 mg/kg	Non-applicable
CAS: 140-11-4	Dermal	6,25 mg/kg	Non-applicable	3,125 mg/kg	Non-applicable
EC: 205-399-7	Inhalation	11 mg/m³	Non-applicable	5,5 mg/m³	Non-applicable
Ionone, methyl-	Oral	Non-applicable	Non-applicable	2,5 mg/kg	Non-applicable
CAS: 1335-46-2	Dermal	Non-applicable	Non-applicable	5 mg/kg	Non-applicable
EC: 215-635-0	Inhalation	Non-applicable	Non-applicable	8,7 mg/m³	Non-applicable
Undecan-4-olide	Oral	Non-applicable	Non-applicable	2,7 mg/kg	Non-applicable
CAS: 104-67-6	Dermal	Non-applicable	Non-applicable	2,7 mg/kg	Non-applicable
EC: 203-225-4	Inhalation	Non-applicable	Non-applicable	4,68 mg/m³	Non-applicable
(r)-p-mentha-1,8-diene	Oral	Non-applicable	Non-applicable	4,76 mg/kg	Non-applicable
CAS: 5989-27-5	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
EC: 227-813-5	Inhalation	Non-applicable	Non-applicable	8,33 mg/m³	Non-applicable
Pin-2(10)-ene	Oral	Non-applicable	Non-applicable	0,31 mg/kg	Non-applicable
CAS: 127-91-3	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
EC: 204-872-5	Inhalation	Non-applicable	Non-applicable	1,06 mg/m³	Non-applicable
Pin-2(3)-ene	Oral	Non-applicable	Non-applicable	0,31 mg/kg	Non-applicable
CAS: 80-56-8	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
EC: 201-291-9	Inhalation	Non-applicable	Non-applicable	1,06 mg/m³	Non-applicable
7-methyl-3-methyleneocta-1,6-diene	Oral	Non-applicable	Non-applicable	0,42 mg/kg	Non-applicable
CAS: 123-35-3	Dermal	Non-applicable	Non-applicable	0,42 mg/kg	Non-applicable
EC: 204-622-5	Inhalation	Non-applicable	Non-applicable	1,25 mg/m³	Non-applicable
P-mentha-1,4(8)-diene	Oral	Non-applicable	Non-applicable	0,26 mg/kg	Non-applicable
CAS: 586-62-9	Dermal	Non-applicable	Non-applicable	0,26 mg/kg	Non-applicable
EC: 209-578-0	Inhalation	Non-applicable	Non-applicable	0,9 mg/m³	Non-applicable

PNEC:

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

Identification				
Benzyl acetate	STP	8,55 mg/L	Fresh water	0,004 mg/L
CAS: 140-11-4	Soil	0,0205 mg/kg	Marine water	0,0004 mg/L
EC: 205-399-7	Intermittent	0,04 mg/L	Sediment (Fresh water)	0,114 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,0114 mg/kg
Ionone, methyl-	STP	10 mg/L	Fresh water	0,0023 mg/L
CAS: 1335-46-2	Soil	0,0477 mg/kg	Marine water	0,00023 mg/L
EC: 215-635-0	Intermittent	0,023 mg/L	Sediment (Fresh water)	0,246 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,0246 mg/kg
3-ethoxy-4-hydroxybenzaldehyde	STP	10 mg/L	Fresh water	0,118 mg/L
CAS: 121-32-4	Soil	2,923 mg/kg	Marine water	0,0118 mg/L
EC: 204-464-7	Intermittent	Non-applicable	Sediment (Fresh water)	15 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	1,5 mg/kg
Undecan-4-olide	STP	80 mg/L	Fresh water	0,00585 mg/L
CAS: 104-67-6	Soil	0,122 mg/kg	Marine water	0,000585 mg/L
EC: 203-225-4	Intermittent	0,0585 mg/L	Sediment (Fresh water)	0,628 mg/kg
	Oral	66,7 g/kg	Sediment (Marine water)	0,063 mg/kg
Pentadecan-15-olide	STP	10 mg/L	Fresh water	0,0027 mg/L
CAS: 106-02-5	Soil	10 mg/kg	Marine water	0,00027 mg/L
EC: 203-354-6	Intermittent	Non-applicable	Sediment (Fresh water)	21 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	4,2 mg/kg
Piperonal	STP	10 mg/L	Fresh water	0,0025 mg/L
CAS: 120-57-0	Soil	0,00084 mg/kg	Marine water	0,00025 mg/L
EC: 204-409-7	Intermittent	0,025 mg/L	Sediment (Fresh water)	0,0119 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,0012 mg/kg
(r)-p-mentha-1,8-diene	STP	1,8 mg/L	Fresh water	0,0054 mg/L
CAS: 5989-27-5	Soil	0,262 mg/kg	Marine water	0,00054 mg/L
EC: 227-813-5	Intermittent	Non-applicable	Sediment (Fresh water)	1,32 mg/kg
	Oral	3,33 g/kg	Sediment (Marine water)	0,13 mg/kg
Pin-2(10)-ene	STP	3,26 mg/L	Fresh water	0,002 mg/L
CAS: 127-91-3	Soil	0,49 mg/kg	Marine water	0,0002 mg/L
EC: 204-872-5	Intermittent	Non-applicable	Sediment (Fresh water)	0,485 mg/kg
	Oral	1,35 g/kg	Sediment (Marine water)	0,048 mg/kg
Pin-2(3)-ene	STP	3,26 mg/L	Fresh water	0,004 mg/L
CAS: 80-56-8	Soil	0,539 mg/kg	Marine water	0,0004 mg/L
EC: 201-291-9	Intermittent	Non-applicable	Sediment (Fresh water)	1,033 mg/kg
	Oral	1,35 g/kg	Sediment (Marine water)	0,103 mg/kg
7-methyl-3-methyleneocta-1,6-diene	STP	0,2 mg/L	Fresh water	0,008 mg/L
CAS: 123-35-3	Soil	1,015 mg/kg	Marine water	0,0008 mg/L
EC: 204-622-5	Intermittent	Non-applicable	Sediment (Fresh water)	5,022 mg/kg
	Oral	2,78 g/kg	Sediment (Marine water)	0,502 mg/kg
P-mentha-1,4(8)-diene	STP	0,2 mg/L	Fresh water	0,000634 mg/L
CAS: 586-62-9	Soil	0,0291 mg/kg	Marine water	0,0000634 mg/L
EC: 209-578-0	Intermittent	0,00634 mg/L	Sediment (Fresh water)	0,147 mg/kg
	Oral	10,31 g/kg	Sediment (Marine water)	0,0147 mg/kg

8.2 Exposure controls:

A.- General security and hygiene measures in the work place

As a preventative measure it is recommended to use basic Personal Protective Equipment, with the corresponding <<CE marking>> in accordance with Directive 89/686/EC. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection,…) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1.
All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

B.- Respiratory protection

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

C.- Specific protection for the hands

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

Pictogram	PPE	Labelling	CEN Standard	Remarks
 Mandatory hand protection	Protective gloves against minor risks	CE CAT I		Replace gloves in case of any sign of damage. For prolonged periods of exposure to the product for professional users/industrials, we recommend using CE III gloves in line with standards EN 420:2003+A1:2009 and EN ISO 374-1:2016

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

D.- Ocular and facial protection

Pictogram	PPE	Labelling	CEN Standard	Remarks
 Mandatory face protection	Panoramic glasses against splash/projections.	CE CAT II	EN 166:2001 EN ISO 4007:2018	Clean daily and disinfect periodically according to the manufacturer´s instructions. Use if there is a risk of splashing.

E.- Body protection

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

F.- Additional emergency measures

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

Environmental exposure controls:

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

Volatile organic compounds:

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

V.O.C. (Supply):	31,5 % weight
V.O.C. density at 20 ºC:	Non-applicable
Average carbon number:	9,05
Average molecular weight:	153,36 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 ºC:	Liquid
Appearance:	Not available
Colour:	Not available
Odour:	Not available
Odour threshold:	Non-applicable *

*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)

Volatility:

Boiling point at atmospheric pressure:	218 ºC
Vapour pressure at 20 ºC:	181 Pa
Vapour pressure at 50 ºC:	951,12 Pa (0,95 kPa)
Evaporation rate at 20 ºC:	Non-applicable *

Product description:

Density at 20 ºC:	Non-applicable *
Relative density at 20 ºC:	Non-applicable *
Dynamic viscosity at 20 ºC:	Non-applicable *
Kinematic viscosity at 20 ºC:	Non-applicable *
Kinematic viscosity at 40 ºC:	Non-applicable *
Concentration:	Non-applicable *
pH:	Non-applicable *
Vapour density at 20 ºC:	Non-applicable *
Partition coefficient n-octanol/water 20 ºC:	Non-applicable *
Solubility in water at 20 ºC:	Non-applicable *
Solubility properties:	Non-applicable *
Decomposition temperature:	Non-applicable *
Melting point/freezing point:	Non-applicable *
Explosive properties:	Non-applicable *
Oxidising properties:	Non-applicable *

Flammability:

Flash Point:	62 ºC
Flammability (solid, gas):	Non-applicable *
Autoignition temperature:	254 ºC
Lower flammability limit:	Non-applicable *
Upper flammability limit:	Non-applicable *

Explosive:

Lower explosive limit:	Non-applicable *
Upper explosive limit:	Non-applicable *

9.2 Other information:

Surface tension at 20 ºC:	Non-applicable *
Refraction index:	Non-applicable *

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

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:

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

10.2 Chemical stability:

Chemically stable under the 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

- CONTINUED ON NEXT PAGE -

SECTION 10: STABILITY AND REACTIVITY (continued)

10.5 Incompatible materials:

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

10.6 Hazardous decomposition products:

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

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

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

Dangerous health implications:

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

A- Ingestion (acute effect):

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

B- Inhalation (acute effect):

- Acute toxicity : Exposure in high concentration can interfere with the central nervous system causing headache, dizziness, vertigo, nausea, vomiting, confusion, and in serious cases, loss of consciousness.
- Corrosivity/Irritability: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

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

- Contact with the skin: Based on available data, the classification criteria are not met. However, it contains substances classified as dangerous for skin contact. For more information see section 3.
- 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 dangerous for the effects mentioned. For more information see section 3.
  IARC: Benzyl acetate (3); 7-methyl-3-methyleneocta-1,6-diene (2B)
- Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous 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 dangerous 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 dangerous with sensitising effects. For more information see section 3.
- Cutaneous: Prolonged contact with the skin can result in episodes of allergic contact dermatitis.

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

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

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

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

Other information:

Non-applicable

Specific toxicology information on the substances:

- CONTINUED ON NEXT PAGE -

SECTION 11: TOXICOLOGICAL INFORMATION (continued)

Identification	Acute toxicity		Genus
3-Methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one	LD50 oral	5500 mg/kg	Rat
CAS: 127-51-5	LD50 dermal	5500 mg/kg	Rabbit
EC: 204-846-3	LC50 inhalation	Non-applicable	
(E)-1-(2,6,6-trimethyl-2-cyclohexen-1-yl)-2-buten-1-one	LD50 oral	1670 mg/kg	Rat
CAS: 24720-09-0	LD50 dermal	2900 mg/kg	
EC: 246-430-4	LC50 inhalation	Non-applicable	
Benzyl acetate	LD50 oral	2490 mg/kg	Rat
CAS: 140-11-4	LD50 dermal	Non-applicable	
EC: 205-399-7	LC50 inhalation	11 mg/L (4 h) (ATEi)	
3-methylbutyl butyrate	LD50 oral	5500 mg/kg	Rat
CAS: 106-27-4	LD50 dermal	Non-applicable	
EC: 203-380-8	LC50 inhalation	Non-applicable	
3-ethoxy-4-hydroxybenzaldehyde	LD50 oral	3000 mg/kg	Rat
CAS: 121-32-4	LD50 dermal	Non-applicable	
EC: 204-464-7	LC50 inhalation	11 mg/L (4 h) (ATEi)	
Undecan-4-olide	LD50 oral	18500 mg/kg	Rat
CAS: 104-67-6	LD50 dermal	Non-applicable	
EC: 203-225-4	LC50 inhalation	Non-applicable	
Piperonal	LD50 oral	2700 mg/kg	Rat
CAS: 120-57-0	LD50 dermal	Non-applicable	
EC: 204-409-7	LC50 inhalation	Non-applicable	
p-mentha-1,4-diene	LD50 oral	3850 mg/kg	Rat
CAS: 99-85-4	LD50 dermal	Non-applicable	
EC: 202-794-6	LC50 inhalation	Non-applicable	
Pin-2(3)-ene	LD50 oral	3700 mg/kg	Rat
CAS: 80-56-8	LD50 dermal	5100 mg/kg	Rabbit
EC: 201-291-9	LC50 inhalation	Non-applicable	

Acute Toxicity Estimate (ATE mix):

ATE mix		Ingredient(s) of unknown toxicity
Oral	36531,25 mg/kg (Calculation method)	12,5 %
Dermal	>2000 mg/kg (Calculation method)	Non-applicable
Inhalation	11,87 mg/L (4 h) (Calculation method)	79,5 %

SECTION 12: ECOLOGICAL INFORMATION

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

12.1 Toxicity:

Identification	Acute toxicity		Species	Genus
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
Benzyl acetate	LC50	10 - 100 mg/L (96 h)		Fish
CAS: 140-11-4	EC50	10 - 100 mg/L (48 h)		Crustacean
EC: 205-399-7	EC50	10 - 100 mg/L (72 h)		Algae
3-methylbutyl butyrate	LC50	0.1 - 1 mg/L (96 h)		Fish
CAS: 106-27-4	EC50	0.1 - 1 mg/L (48 h)		Crustacean
EC: 203-380-8	EC50	0.1 - 1 mg/L		Algae
Ionone, methyl-	LC50	1 - 10 mg/L (96 h)		Fish
CAS: 1335-46-2	EC50	1 - 10 mg/L		Crustacean
EC: 215-635-0	EC50	1 - 10 mg/L		Algae

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SECTION 12: ECOLOGICAL INFORMATION (continued)

Identification	Acute toxicity		Species	Genus
3-ethoxy-4-hydroxybenzaldehyde	LC50	0.1 - 1 mg/L (96 h)		Fish
CAS: 121-32-4	EC50	0.1 - 1 mg/L		Crustacean
EC: 204-464-7	EC50	0.1 - 1 mg/L		Algae
Undecan-4-olide	LC50	10 - 100 mg/L (96 h)		Fish
CAS: 104-67-6	EC50	10 - 100 mg/L		Crustacean
EC: 203-225-4	EC50	10 - 100 mg/L		Algae
Pentadecan-15-olide	LC50	1 - 10 mg/L (96 h)		Fish
CAS: 106-02-5	EC50	1 - 10 mg/L		Crustacean
EC: 203-354-6	EC50	1 - 10 mg/L		Algae
Piperonal	LC50	1 - 10 mg/L (96 h)		Fish
CAS: 120-57-0	EC50	1 - 10 mg/L		Crustacean
EC: 204-409-7	EC50	1 - 10 mg/L		Algae
(r)-p-mentha-1,8-diene	LC50	0.1 - 1 mg/L (96 h)		Fish
CAS: 5989-27-5	EC50	0.1 - 1 mg/L		Crustacean
EC: 227-813-5	EC50	0.1 - 1 mg/L		Algae
Pin-2(10)-ene	LC50	0.1 - 1 mg/L (96 h)		Fish
CAS: 127-91-3	EC50	0.1 - 1 mg/L		Crustacean
EC: 204-872-5	EC50	0.1 - 1 mg/L		Algae
p-mentha-1,4-diene	LC50	2.8 mg/L (96 h)	N/A	Fish
CAS: 99-85-4	EC50	10.2 mg/L (48 h)	Daphnia magna	Crustacean
EC: 202-794-6	EC50	Non-applicable		
Pin-2(3)-ene	LC50	0.1 - 1 mg/L (96 h)		Fish
CAS: 80-56-8	EC50	0.1 - 1 mg/L		Crustacean
EC: 201-291-9	EC50	0.1 - 1 mg/L		Algae
7-methyl-3-methyleneocta-1,6-diene	LC50	0.1 - 1 mg/L (96 h)		Fish
CAS: 123-35-3	EC50	0.1 - 1 mg/L		Crustacean
EC: 204-622-5	EC50	0.1 - 1 mg/L		Algae
P-mentha-1,4(8)-diene	LC50	0.8 mg/L (96 h)	Danio rerio	Fish
CAS: 586-62-9	EC50	0.63 mg/L (48 h)	Daphnia magna	Crustacean
EC: 209-578-0	EC50	0.7 mg/L (72 h)	Pseudokirchneriella subcapitata	Algae

12.2 Persistence and degradability:

Identification	Degradability		Biodegradability	
3-Methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one	BOD5	Non-applicable	Concentration	4 mg/L
CAS: 127-51-5	COD	Non-applicable	Period	28 days
EC: 204-846-3	BOD5/COD	Non-applicable	% Biodegradable	42,51 %
Benzyl acetate	BOD5	Non-applicable	Concentration	10 mg/L
CAS: 140-11-4	COD	Non-applicable	Period	28 days
EC: 205-399-7	BOD5/COD	Non-applicable	% Biodegradable	100 %
3-methylbutyl butyrate	BOD5	Non-applicable	Concentration	15.1 mg/L
CAS: 106-27-4	COD	Non-applicable	Period	28 days
EC: 203-380-8	BOD5/COD	Non-applicable	% Biodegradable	63 %
p-mentha-1,4-diene	BOD5	Non-applicable	Concentration	Non-applicable
CAS: 99-85-4	COD	Non-applicable	Period	28 days
EC: 202-794-6	BOD5/COD	Non-applicable	% Biodegradable	27 %
Pin-2(3)-ene	BOD5	Non-applicable	Concentration	100 mg/L
CAS: 80-56-8	COD	Non-applicable	Period	28 days
EC: 201-291-9	BOD5/COD	Non-applicable	% Biodegradable	95 %
7-methyl-3-methyleneocta-1,6-diene	BOD5	Non-applicable	Concentration	100 mg/L
CAS: 123-35-3	COD	Non-applicable	Period	14 days
EC: 204-622-5	BOD5/COD	Non-applicable	% Biodegradable	86 %
P-mentha-1,4(8)-diene	BOD5	Non-applicable	Concentration	2 mg/L
CAS: 586-62-9	COD	Non-applicable	Period	28 days
EC: 209-578-0	BOD5/COD	Non-applicable	% Biodegradable	81 %

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SECTION 12: ECOLOGICAL INFORMATION (continued)

12.3 Bioaccumulative potential:

Identification	Bioaccumulation potential	
3-Methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one	BCF	
CAS: 127-51-5	Pow Log	3.49
EC: 204-846-3	Potential	
Benzyl acetate	BCF	8
CAS: 140-11-4	Pow Log	1.96
EC: 205-399-7	Potential	Low
3-methylbutyl butyrate	BCF	120
CAS: 106-27-4	Pow Log	2.44
EC: 203-380-8	Potential	High
Pin-2(10)-ene	BCF	440
CAS: 127-91-3	Pow Log	4.35
EC: 204-872-5	Potential	High
Pin-2(3)-ene	BCF	2800
CAS: 80-56-8	Pow Log	4.83
EC: 201-291-9	Potential	Very High
7-methyl-3-methyleneocta-1,6-diene	BCF	324
CAS: 123-35-3	Pow Log	5.29
EC: 204-622-5	Potential	High
P-mentha-1,4(8)-diene	BCF	334
CAS: 586-62-9	Pow Log	4.29
EC: 209-578-0	Potential	High

12.4 Mobility in soil:

Identification	Absorption/desorption		Volatility	
3-Methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one	Koc	3061.96	Henry	Non-applicable
CAS: 127-51-5	Conclusion	Low	Dry soil	Non-applicable
EC: 204-846-3	Surface tension	Non-applicable	Moist soil	Non-applicable
Benzyl acetate	Koc	Non-applicable	Henry	Non-applicable
CAS: 140-11-4	Conclusion	Non-applicable	Dry soil	Non-applicable
EC: 205-399-7	Surface tension	3,558E-2 N/m (25 ºC)	Moist soil	Non-applicable
3-methylbutyl butyrate	Koc	276.5	Henry	Non-applicable
CAS: 106-27-4	Conclusion	Moderate	Dry soil	Non-applicable
EC: 203-380-8	Surface tension	2,577E-2 N/m (25 ºC)	Moist soil	Non-applicable
3-ethoxy-4-hydroxybenzaldehyde	Koc	Non-applicable	Henry	Non-applicable
CAS: 121-32-4	Conclusion	Non-applicable	Dry soil	Non-applicable
EC: 204-464-7	Surface tension	1,87E-2 N/m (276,18 ºC)	Moist soil	Non-applicable
Pin-2(10)-ene	Koc	Non-applicable	Henry	Non-applicable
CAS: 127-91-3	Conclusion	Non-applicable	Dry soil	Non-applicable
EC: 204-872-5	Surface tension	2,685E-2 N/m (25 ºC)	Moist soil	Non-applicable
p-mentha-1,4-diene	Koc	8038	Henry	Non-applicable
CAS: 99-85-4	Conclusion	Immobile	Dry soil	Non-applicable
EC: 202-794-6	Surface tension	2,991E-2 N/m (25 ºC)	Moist soil	Non-applicable
Pin-2(3)-ene	Koc	Non-applicable	Henry	Non-applicable
CAS: 80-56-8	Conclusion	Non-applicable	Dry soil	Non-applicable
EC: 201-291-9	Surface tension	2,587E-2 N/m (25 ºC)	Moist soil	Non-applicable
7-methyl-3-methyleneocta-1,6-diene	Koc	1300	Henry	6515,2 Pa·m³/mol
CAS: 123-35-3	Conclusion	Low	Dry soil	Non-applicable
EC: 204-622-5	Surface tension	Non-applicable	Moist soil	Yes
P-mentha-1,4(8)-diene	Koc	1120	Henry	Non-applicable
CAS: 586-62-9	Conclusion	Low	Dry soil	Non-applicable
EC: 209-578-0	Surface tension	2,865E-2 N/m (25 ºC)	Moist soil	Non-applicable

12.5 Results of PBT and vPvB assessment:

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SECTION 12: ECOLOGICAL INFORMATION (continued)

Product fails to meet PBT/vPvB criteria

12.6 Other adverse effects:

Not described

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:

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

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

HP14 Ecotoxic, 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-dangerous residue. We do not recommended disposal down the drain. See paragraph 6.2.

Regulations related to waste management:

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

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

SECTION 14: TRANSPORT INFORMATION

Transport of dangerous goods by land:

With regard to ADR 2019 and RID 2019:

14.1	**UN number:**	UN3082
14.2	**UN proper shipping name:**	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (3-Methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one)
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:	Non-applicable
	Physico-Chemical properties:	see section 9
	Limited quantities:	5 L
14.7	**Transport in bulk according to Annex II of Marpol and the IBC Code:**	Non-applicable

Transport of dangerous goods by sea:

With regard to IMDG 39-18:

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SECTION 14: TRANSPORT INFORMATION (continued)

14.1	**UN number:**	UN3082
14.2	**UN proper shipping name:**	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (3-Methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one)
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:	335, 969, 274
	EmS Codes:	F-A, S-F
	Physico-Chemical properties:	see section 9
	Limited quantities:	5 L
	Segregation group:	Non-applicable
14.7	**Transport in bulk according to Annex II of Marpol and the IBC Code:**	Non-applicable

Transport of dangerous goods by air:

With regard to IATA/ICAO 2020:

14.1	**UN number:**	UN3082
14.2	**UN proper shipping name:**	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (3-Methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one)
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	**Transport in bulk according to Annex II of Marpol and the IBC Code:**	Non-applicable

SECTION 15: REGULATORY INFORMATION

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

Candidate substances for authorisation under the Regulation (EC) No 1907/2006 (REACH): Non-applicable

Substances included in Annex XIV of REACH ("Authorisation List") and sunset date: Non-applicable

Regulation (EC) No 1005/2009, about substances that deplete the ozone layer: Non-applicable

Article 95, REGULATION (EU) No 528/2012: Non-applicable

REGULATION (EU) No 649/2012, in relation to the import and export of hazardous chemical products: Non-applicable

Seveso III:

Section	Description	Lower-tier requirements	Upper-tier requirements
E2		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.

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SECTION 16: OTHER INFORMATION

Legislation related to safety data sheets:
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 (Regulation (EC) No 2015/830)

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

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
H332: Harmful if inhaled
H319: Causes serious eye irritation

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

CLP Regulation (EC) No 1272/2008:
Acute Tox. 4: H302 - Harmful if swallowed
Acute Tox. 4: H332 - Harmful if inhaled
Aquatic Acute 1: H400 - Very toxic to aquatic life
Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects
Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects
Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects
Asp. Tox. 1: H304 - May be fatal if swallowed and enters airways
Eye Irrit. 2: H319 - Causes serious eye irritation
Flam. Liq. 3: H226 - Flammable liquid and vapour
Repr. 2: H361 - Suspected of damaging fertility or the unborn child
Skin Irrit. 2: H315 - Causes skin irritation
Skin Sens. 1: H317 - May cause an allergic skin reaction
Skin Sens. 1B: H317 - May cause an allergic skin reaction

Classification procedure:
Aquatic Chronic 2: Calculation method
Skin Sens. 1B: Calculation method
Acute Tox. 4: Calculation method
Eye Irrit. 2: Calculation method

Advice related to training:
Minimal 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: 5-day biochemical oxygen demand
BCF: Bioconcentration factor
LD50: Lethal Dose 50
LC50: Lethal Concentration 50
EC50: Effective concentration 50
Log-POW: Octanol-water partition coefficient
Koc: Partition coefficient of organic carbon

- END OF SAFETY DATA SHEET -