

TENDER ROSE - FR5580



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

- 1.1 Product identifier:** TENDER ROSE - FR5580
Other means of identification:
Non-applicable
- 1.2 Relevant identified uses of the substance or mixture and uses advised against:**
Relevant uses: Fragrance. For industrial user only.
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:**
FRAGRANCE SCIENCE S.L
POL.IND CAN SINGLA, C/CAN SINGLA Nº19
08640 OLESA DE MONTSERRAT - BARCELONA - SPAIN
Phone: +34 937 757 206 - Fax: +34 937 757 206
info@fragrancescience.com
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- 1.4 Emergency telephone number:** +34 937757206 (Mon-Thu: 8-17h, Fri:7-14h)

SECTION 2: HAZARDS IDENTIFICATION

- 2.1 Classification of the substance or mixture:**
CLP Regulation (EC) No 1272/2008:
Classification of this product has been carried out in accordance with CLP Regulation (EC) No 1272/2008.
Aquatic Chronic 2: Hazardous to the aquatic environment, long-term hazard, Category 2, H411
Carc. 2: Carcinogenicity, Category 2, H351
Skin Irrit. 2: Skin irritation, Category 2, H315
Skin Sens. 1A: Sensitisation, skin, Category 1A, H317
- 2.2 Label elements:**
CLP Regulation (EC) No 1272/2008:
Warning

Hazard statements:
Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects.
Carc. 2: H351 - Suspected of causing cancer.
Skin Irrit. 2: H315 - Causes skin irritation.
Skin Sens. 1A: H317 - May cause an allergic skin reaction.
Precautionary statements:
P201: Obtain special instructions before use.
P261: Avoid breathing dust/fume/gas/mist/vapours/spray.
P264: Wash thoroughly after handling.
P273: Avoid release to the environment.
P280: Wear protective gloves/face protection/protective clothing/respiratory protection/protective footwear.
P302+P352: IF ON SKIN: Wash with plenty of water.
P308+P313: IF exposed or concerned: Get medical advice/attention.
P501: Dispose of contents/container in accordance with regulations on hazardous waste or packaging and packaging waste respectively.
Supplementary information:
Contains alpha-ISOMETHYL IONONE, CITRONELLOL, GERANIOL, HYDROXYCITRONELLAL, ISOEUGENOL, LIMONENE, LINALOOL, LINALYL ACETATE, METHYL OCTINE CARBONATE, NEROL, p-MENTHAN-7-OL, TETRAMETHYL ACETYLOCTAHYDRONAPHTHALENES, TOCOPHEROL.
Substances that contribute to the classification
MUSK KETONE
- 2.3 Other hazards:**

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SECTION 2: HAZARDS IDENTIFICATION (continued)

Product fails to meet PBT/vPvB criteria
Endocrine-disrupting properties: The product fails to meet the criteria.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS **

3.1 Substance:

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: 54464-57-2 EC: 259-174-3 Index: Non-applicable REACH: 01-2119489989-04-XXXX	TETRAMETHYL ACETYLOCTAHYDRONAPHTHALENES⁽¹⁾	Self-classified	10 - <25 %
	Regulation 1272/2008	Aquatic Chronic 1: H410; Skin Irrit. 2: H315; Skin Sens. 1B: H317 - Warning	
CAS: 1222-05-5 EC: 214-946-9 Index: Non-applicable REACH: 01-2119488227-29-XXXX	HEXAMETHYLINDANOPYRAN⁽¹⁾	ATP ATP01	5 - <10 %
	Regulation 1272/2008	Aquatic Acute 1: H400; Aquatic Chronic 1: H410 - Warning	
CAS: 60-12-8 EC: 200-456-2 Index: Non-applicable REACH: 01-2119963921-31-XXXX	PHENETHYL ALCOHOL⁽¹⁾	Self-classified	2,5 - <5 %
	Regulation 1272/2008	Acute Tox. 4: H302; Eye Irrit. 2: H319 - Warning	
CAS: 140-11-4 EC: 205-399-7 Index: Non-applicable REACH: 01-2119638272-42-XXXX	BENZYL ACETATE⁽¹⁾	Self-classified	2,5 - <5 %
	Regulation 1272/2008	Aquatic Chronic 3: H412	
CAS: 81-14-1 EC: 201-328-9 Index: Non-applicable REACH: 01-2120766629-37-XXXX	MUSK KETONE⁽¹⁾	ATP ATP01	1 - <2,5 %
	Regulation 1272/2008	Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Carc. 2: H351 - Warning	
CAS: 121-32-4 EC: 204-464-7 Index: Non-applicable REACH: 01-2119958961-24-XXXX	ETHYL VANILLIN⁽¹⁾	Self-classified	1 - <2,5 %
	Regulation 1272/2008	Eye Irrit. 2: H319 - Warning	
CAS: 70356-09-1 EC: 274-581-6 Index: Non-applicable REACH: Non-applicable	BUTYL METHOXYDIBENZOYLMETHANE⁽¹⁾	Self-classified	1 - <2,5 %
	Regulation 1272/2008	Aquatic Chronic 4: H413	
CAS: 131-57-7 EC: 205-031-5 Index: Non-applicable REACH: Non-applicable	BENZOPHENONE-3⁽¹⁾	Self-classified	1 - <2,5 %
	Regulation 1272/2008	Aquatic Acute 1: H400; Aquatic Chronic 2: H411 - Warning	
CAS: 5989-27-5 EC: 227-813-5 Index: Non-applicable REACH: 01-2119529223-47-0005	LIMONENE⁽¹⁾	Self-classified	0,5 - <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. 1: H317 - Danger	
CAS: 78-70-6 EC: 201-134-4 Index: Non-applicable REACH: 01-2119474016-42-XXXX	LINALOOL⁽¹⁾	Self-classified	0,5 - <1 %
	Regulation 1272/2008	Eye Irrit. 2: H319; Skin Irrit. 2: H315; Skin Sens. 1B: H317 - Warning	
CAS: 106-24-1 EC: 203-377-1 Index: Non-applicable REACH: 01-2119552430-49-XXXX	GERANIOL⁽¹⁾	Self-classified	0,5 - <1 %
	Regulation 1272/2008	Eye Dam. 1: H318; Skin Irrit. 2: H315; Skin Sens. 1: H317 - Danger	

*There is not a registration number available for this substance due to the substance or its use are exempt from a registration number; According to article 2, article 15 of Regulation (CE) 1907/2006, the annual tonnage does not need to be registered

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

⁽²⁾ Substance with a Union workplace exposure limit

** Changes with regards to the previous version

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

Identification	Chemical name/Classification		Concentration
CAS: 115-95-7 EC: 204-116-4 Index: Non-applicable REACH: 01-2119454789-19-XXXX	LINALYL ACETATE⁽¹⁾	Self-classified	0,5 - <1 %
	Regulation 1272/2008	Eye Irrit. 2: H319; Skin Irrit. 2: H315; Skin Sens. 1: H317 - Warning	
CAS: 106-25-2 EC: 203-378-7 Index: Non-applicable REACH: Non-applicable *	NEROL⁽¹⁾	Self-classified	0,5 - <1 %
	Regulation 1272/2008	Eye Irrit. 2: H319; Skin Irrit. 2: H315; Skin Sens. 1B: H317 - Warning	
CAS: 107-75-5 EC: 203-518-7 Index: Non-applicable REACH: 01-2119973482-31-XXXX	HYDROXYCITRONELLAL⁽¹⁾	Self-classified	0,1 - <0,5 %
	Regulation 1272/2008	Eye Irrit. 2: H319; Skin Sens. 1B: H317 - Warning	
CAS: 127-51-5 EC: 204-846-3 Index: Non-applicable REACH: Non-applicable *	alpha-ISOMETHYL IONONE⁽¹⁾	Self-classified	0,1 - <0,5 %
	Regulation 1272/2008	Aquatic Chronic 2: H411; Eye Irrit. 2: H319; Skin Irrit. 2: H315; Skin Sens. 1B: H317 - Warning	
CAS: 13828-37-0 EC: 237-539-8 Index: Non-applicable REACH: Non-applicable *	p-MENTHAN-7-OL⁽¹⁾	Self-classified	0,1 - <0,5 %
	Regulation 1272/2008	Skin Sens. 1B: H317 - Warning	
CAS: 10191-41-0 EC: 233-466-0 Index: Non-applicable REACH: Non-applicable	TOCOPHEROL⁽¹⁾	Self-classified	0,1 - <0,5 %
	Regulation 1272/2008	Skin Sens. 1B: H317 - Warning	
CAS: 106-22-9 EC: 203-375-0 Index: Non-applicable REACH: 01-2119453995-23-XXXX	CITRONELLOL⁽¹⁾	Self-classified	0,1 - <0,5 %
	Regulation 1272/2008	Eye Irrit. 2: H319; Skin Irrit. 2: H315; Skin Sens. 1B: H317 - Warning	
CAS: 111-80-8 EC: 203-909-2 Index: Non-applicable REACH: Non-applicable *	METHYL OCTINE CARBONATE⁽¹⁾	Self-classified	0,05 - <0,1 %
	Regulation 1272/2008	Acute Tox. 4: H302; Aquatic Acute 1: H400; Aquatic Chronic 3: H412; Skin Irrit. 2: H315; Skin Sens. 1A: H317 - Warning	
CAS: 97-54-1 EC: 202-590-7 Index: Non-applicable REACH: Non-applicable *	ISOEUGENOL⁽¹⁾	Self-classified	0,01 - <0,05 %
	Regulation 1272/2008	Acute Tox. 4: H302+H312+H332; Eye Irrit. 2: H319; Skin Irrit. 2: H315; Skin Sens. 1B: H317; STOT SE 3: H335 - Warning	
CAS: 123-92-2 EC: 204-662-3 Index: Non-applicable REACH: 01-2119548408-32-XXXX	ISOAMYL ACETATE⁽²⁾	ATP CLP00	<0,01 %
	Regulation 1272/2008	Flam. Liq. 3: H226; EUH066 - Warning	

*There is not a registration number available for this substance due to the substance or its use are exempt from a registration number; According to article 2, article 15 of Regulation (CE) 1907/2006, the annual tonnage does not need to be registered

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

⁽²⁾ Substance with a Union workplace exposure limit

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

** Changes with regards to the previous version

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures:

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

By inhalation:

This product is not classified as hazardous through inhalation. However, in case of intoxication symptoms it is recommended to remove the person affected from the area of exposure, provide clean air and keep at rest. Request medical attention if symptoms persist.

By skin contact:

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

By eye contact:

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SECTION 4: FIRST AID MEASURES (continued)

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

By ingestion/aspiration:

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

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

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

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

Non-applicable

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media:

Suitable 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.

Unsuitable extinguishing media:

IT IS RECOMMENDED NOT 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:

For non-emergency personnel:

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

For emergency responders:

Wear protective equipment. Keep unprotected persons away. See section 8.

6.2 Environmental precautions:

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

6.3 Methods and material for containment and cleaning up:

It is recommended:

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

6.4 Reference to other sections:

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SECTION 6: ACCIDENTAL RELEASE MEASURES (continued)

See sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:

A.- General precautions for safe use

Comply with the current legislation concerning the prevention of industrial risks with regards manually handling weights. Maintain order, cleanliness and dispose of using safe methods (section 6).

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

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

C.- Technical recommendations on general occupational hygiene

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

D.- Technical recommendations to prevent environmental risks

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

7.2 Conditions for safe storage, including any incompatibilities:

A.- Technical measures for storage

Minimum Temp.: 5 °C

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 (European OEL, not country-specific legislation):

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

Identification		Occupational exposure limits		
ISOAMYL ACETATE CAS: 123-92-2 EC: 204-662-3	IOELV (8h)	50 ppm	270 mg/m ³	
	IOELV (STEL)	100 ppm	540 mg/m ³	

DNEL (Workers):

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
HEXAMETHYLINDANOPYRAN CAS: 1222-05-5 EC: 214-946-9	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	36,7 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	13,5 mg/m ³	Non-applicable
PHENETHYL ALCOHOL CAS: 60-12-8 EC: 200-456-2	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	21,2 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	59,9 mg/m ³	Non-applicable
BENZYL ACETATE CAS: 140-11-4 EC: 205-399-7	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	2,5 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	9 mg/m ³	Non-applicable

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
MUSK KETONE CAS: 81-14-1 EC: 201-328-9	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	0,563 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	0,247 mg/m ³	Non-applicable
ETHYL VANILLIN CAS: 121-32-4 EC: 204-464-7	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	7 mg/kg	Non-applicable
	Inhalation	98 mg/m ³	Non-applicable	49 mg/m ³	Non-applicable
BUTYL METHOXYDIBENZOYLMETHANE CAS: 70356-09-1 EC: 274-581-6	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	6,49 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	22,2 mg/m ³	Non-applicable
BENZOPHENONE-3 CAS: 131-57-7 EC: 205-031-5	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	39 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	27,7 mg/m ³	Non-applicable
LIMONENE CAS: 5989-27-5 EC: 227-813-5	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	9,5 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	66,7 mg/m ³	Non-applicable
LINALOOL CAS: 78-70-6 EC: 201-134-4	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	3,5 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	24,58 mg/m ³	Non-applicable
GERANIOL CAS: 106-24-1 EC: 203-377-1	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	12,5 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	161,6 mg/m ³	Non-applicable
LINALYL ACETATE CAS: 115-95-7 EC: 204-116-4	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	2,5 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	2,75 mg/m ³	Non-applicable
NEROL CAS: 106-25-2 EC: 203-378-7	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	1,25 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	4,4 mg/m ³	Non-applicable
HYDROXYCITRONELLAL CAS: 107-75-5 EC: 203-518-7	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	1,9 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	18 mg/m ³	Non-applicable
alpha-ISOMETHYL IONONE CAS: 127-51-5 EC: 204-846-3	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	0,375 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	8,22 mg/m ³	Non-applicable
TOCOPHEROL CAS: 10191-41-0 EC: 233-466-0	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	125 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	44 mg/m ³	Non-applicable
CITRONELLOL CAS: 106-22-9 EC: 203-375-0	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	327,4 mg/kg	Non-applicable
	Inhalation	Non-applicable	10 mg/m ³	161,6 mg/m ³	10 mg/m ³

DNEL (General population):

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
HEXAMETHYLINDANOPYRAN CAS: 1222-05-5 EC: 214-946-9	Oral	Non-applicable	Non-applicable	2,3 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	22 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	4 mg/m ³	Non-applicable
PHENETHYL ALCOHOL CAS: 60-12-8 EC: 200-456-2	Oral	5,1 mg/kg	Non-applicable	5,1 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	12,7 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	17,7 mg/m ³	Non-applicable
BENZYL ACETATE CAS: 140-11-4 EC: 205-399-7	Oral	Non-applicable	Non-applicable	1,3 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	1,3 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	2,2 mg/m ³	Non-applicable

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
MUSK KETONE CAS: 81-14-1 EC: 201-328-9	Oral	Non-applicable	Non-applicable	0,025 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	0,067 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	0,0435 mg/m ³	Non-applicable
ETHYL VANILLIN CAS: 121-32-4 EC: 204-464-7	Oral	Non-applicable	Non-applicable	2,5 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	2,5 mg/kg	Non-applicable
	Inhalation	17,5 mg/m ³	Non-applicable	8,75 mg/m ³	Non-applicable
BUTYL METHOXYDIBENZOYLMETHANE CAS: 70356-09-1 EC: 274-581-6	Oral	Non-applicable	Non-applicable	2,25 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	2,25 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	Non-applicable	Non-applicable
BENZOPHENONE-3 CAS: 131-57-7 EC: 205-031-5	Oral	Non-applicable	Non-applicable	2 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	20 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	6,8 mg/m ³	Non-applicable
LIMONENE CAS: 5989-27-5 EC: 227-813-5	Oral	Non-applicable	Non-applicable	4,8 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	4,8 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	16,6 mg/m ³	Non-applicable
LINALOOL CAS: 78-70-6 EC: 201-134-4	Oral	Non-applicable	Non-applicable	2,49 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	1,25 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	4,33 mg/m ³	Non-applicable
GERANIOL CAS: 106-24-1 EC: 203-377-1	Oral	Non-applicable	Non-applicable	13,75 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	7,5 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	47,8 mg/m ³	Non-applicable
LINALYL ACETATE CAS: 115-95-7 EC: 204-116-4	Oral	Non-applicable	Non-applicable	0,2 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	1,25 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	0,68 mg/m ³	Non-applicable
NEROL CAS: 106-25-2 EC: 203-378-7	Oral	Non-applicable	Non-applicable	0,62 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	0,62 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	1,09 mg/m ³	Non-applicable
HYDROXYCITRONELLAL CAS: 107-75-5 EC: 203-518-7	Oral	Non-applicable	Non-applicable	0,6 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	1,1 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	5,4 mg/m ³	Non-applicable
alpha-ISOMETHYL IONONE CAS: 127-51-5 EC: 204-846-3	Oral	Non-applicable	Non-applicable	0,0355 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	0,0446 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	1,45 mg/m ³	Non-applicable
TOCOPHEROL CAS: 10191-41-0 EC: 233-466-0	Oral	Non-applicable	Non-applicable	6,25 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	62,5 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	10,8 mg/m ³	Non-applicable
CITRONELLOL CAS: 106-22-9 EC: 203-375-0	Oral	Non-applicable	Non-applicable	13,8 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	196,4 mg/kg	Non-applicable
	Inhalation	Non-applicable	10 mg/m ³	47,8 mg/m ³	10 mg/m ³

PNEC:

Identification					
HEXAMETHYLINDANOPYRAN 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	Non-applicable	Sediment (Fresh water)	2 mg/kg	
	Oral	20,4 g/kg	Sediment (Marine water)	0,394 mg/kg	
PHENETHYL ALCOHOL 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	Non-applicable	Sediment (Marine water)	0,145 mg/kg	

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

Identification				
BENZYL ACETATE CAS: 140-11-4 EC: 205-399-7	STP	8,55 mg/L	Fresh water	0,018 mg/L
	Soil	0,094 mg/kg	Marine water	0,002 mg/L
	Intermittent	0,04 mg/L	Sediment (Fresh water)	0,526 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,053 mg/kg
MUSK KETONE CAS: 81-14-1 EC: 201-328-9	STP	10 mg/L	Fresh water	0,000244 mg/L
	Soil	0,0122 mg/kg	Marine water	0,0000244 mg/L
	Intermittent	0,00244 mg/L	Sediment (Fresh water)	0,0618 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,00618 mg/kg
ETHYL VANILLIN CAS: 121-32-4 EC: 204-464-7	STP	10 mg/L	Fresh water	0,118 mg/L
	Soil	2,923 mg/kg	Marine water	0,012 mg/L
	Intermittent	Non-applicable	Sediment (Fresh water)	15 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	1,5 mg/kg
BUTYL METHOXYDIBENZOYLMETHANE CAS: 70356-09-1 EC: 274-581-6	STP	100 mg/L	Fresh water	0,027 mg/L
	Soil	2,384 mg/kg	Marine water	0,027 mg/L
	Intermittent	0 mg/L	Sediment (Fresh water)	11,96 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	11,96 mg/kg
BENZOPHENONE-3 CAS: 131-57-7 EC: 205-031-5	STP	10 mg/L	Fresh water	0,00067 mg/L
	Soil	0,013 mg/kg	Marine water	0,000067 mg/L
	Intermittent	0,0067 mg/L	Sediment (Fresh water)	0,066 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,007 mg/kg
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	Non-applicable	Sediment (Fresh water)	3,85 mg/kg
	Oral	0,133 g/kg	Sediment (Marine water)	0,385 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
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	Non-applicable	Sediment (Marine water)	0,011 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	Non-applicable	Sediment (Marine water)	0,061 mg/kg
NEROL CAS: 106-25-2 EC: 203-378-7	STP	12,9 mg/L	Fresh water	0,00745 mg/L
	Soil	0,0223 mg/kg	Marine water	0,000745 mg/L
	Intermittent	0,0745 mg/L	Sediment (Fresh water)	0,133 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,0133 mg/kg
HYDROXYCITRONELLAL 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	Non-applicable	Sediment (Marine water)	0,015 mg/kg
alpha-ISOMETHYL IONONE CAS: 127-51-5 EC: 204-846-3	STP	10 mg/L	Fresh water	0,00143 mg/L
	Soil	0,0878 mg/kg	Marine water	0,000143 mg/L
	Intermittent	0,0143 mg/L	Sediment (Fresh water)	0,443 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,0443 mg/kg
TOCOPHEROL CAS: 10191-41-0 EC: 233-466-0	STP	Non-applicable	Fresh water	0,516 mg/L
	Soil	259000 mg/kg	Marine water	0,052 mg/L
	Intermittent	Non-applicable	Sediment (Fresh water)	735000 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	73500 mg/kg

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

Identification				
CITRONELLOL CAS: 106-22-9 EC: 203-375-0	STP	580 mg/L	Fresh water	0,002 mg/L
	Soil	0,004 mg/kg	Marine water	0 mg/L
	Intermittent	0,024 mg/L	Sediment (Fresh water)	0,026 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,003 mg/kg
ISOAMYL ACETATE CAS: 123-92-2 EC: 204-662-3	STP	30 mg/L	Fresh water	0,011 mg/L
	Soil	0,06 mg/kg	Marine water	0,001 mg/L
	Intermittent	0,11 mg/L	Sediment (Fresh water)	0,335 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,034 mg/kg

8.2 Exposure controls:

A.- Individual protection measures, such as personal protective equipment

As a preventative measure it is recommended to use basic Personal Protective Equipment, with the corresponding <<CE marking>> in accordance with Regulation (EU) 2016/425. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1. All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

B.- Respiratory protection

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

C.- Specific protection for the hands

Pictogram	PPE	Labelling	CEN Standard	Remarks
 Mandatory hand protection	NON-disposable chemical protective gloves	 CAT III	EN ISO 374-1:2016+A1:2018 EN 16523-1:2015+A1:2018 EN ISO 21420:2020	The Breakthrough Time indicated by the manufacturer must exceed the period during which the product is being used. Do not use protective creams after the product has come into contact with skin.

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

D.- Eye and face protection

Pictogram	PPE	Labelling	CEN Standard	Remarks
 Mandatory face protection	Face shield	 CAT II	EN 166:2002 EN 167:2002 EN 168:2002 EN ISO 4007:2018	Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing.

E.- Body protection



Pictogram	PPE	Labelling	CEN Standard	Remarks
 Mandatory complete body protection	Disposable clothing for protection against chemical risks	 CAT III	EN 13034:2005+A1:2009 EN 168:2002 EN ISO 13982-1:2004/A1:2010 EN ISO 6529:2013 EN ISO 6530:2005 EN 464:1994	For professional use only. Clean periodically according to the manufacturer's instructions.
 Mandatory foot protection	Safety footwear for protection against chemical risk	 CAT III	EN ISO 20345:2011 EN 13832-1:2019	Replace boots at any sign of deterioration.

F.- Additional emergency measures

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

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):	4,68 % weight
V.O.C. density at 20 °C:	47,49 kg/m ³ (47,49 g/L)
Average carbon number:	9,42
Average molecular weight:	147,51 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:	Transparent
Colour:	Colourless
Odour:	Characteristic
Odour threshold:	Non-applicable *

Volatility:

Boiling point at atmospheric pressure:	Non-applicable *
Vapour pressure at 20 °C:	Non-applicable *
Vapour pressure at 50 °C:	Non-applicable *
Evaporation rate at 20 °C:	Non-applicable *

Product description:

Density at 20 °C:	1004,7 - 1024,7 kg/m ³
Relative density at 20 °C:	Non-applicable *
Dynamic viscosity at 20 °C:	Non-applicable *
Kinematic viscosity at 20 °C:	Non-applicable *
Kinematic viscosity at 40 °C:	Non-applicable *
Concentration:	Non-applicable *
pH:	Non-applicable *
Vapour density at 20 °C:	Non-applicable *
Partition coefficient n-octanol/water 20 °C:	Non-applicable *
Solubility in water at 20 °C:	Non-applicable *
Solubility properties:	Non-applicable *
Decomposition temperature:	Non-applicable *
Melting point/freezing point:	Non-applicable *

Flammability:

Flash Point:	Non Flammable (>60 °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)

Flammability (solid, gas):	Non-applicable *
Autoignition temperature:	Non-applicable *
Lower flammability limit:	Non-applicable *
Upper flammability limit:	Non-applicable *

Particle characteristics:

Median equivalent diameter:	Non-applicable
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9.2 Other information:

Information with regard to physical hazard classes:

Explosive properties:	Non-applicable *
Oxidising properties:	Non-applicable *
Corrosive to metals:	Non-applicable *
Heat of combustion:	Non-applicable *
Aerosols-total percentage (by mass) of flammable components:	Non-applicable *

Other safety characteristics:

Surface tension at 20 °C:	Non-applicable *
Refraction index:	1,4652 - 1,4752

*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 indicated conditions of storage, handling and use.

10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity
Not applicable	Not applicable	Precaution	Precaution	Not applicable

10.5 Incompatible materials:

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

10.6 Hazardous decomposition products:

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

SECTION 11: TOXICOLOGICAL INFORMATION **

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008:

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

Dangerous health implications:

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

A- Ingestion (acute effect):

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SECTION 11: TOXICOLOGICAL INFORMATION ** (continued)

- 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. However, it contains substances classified as hazardous for inhalation. For more information see section 3.
- C- Contact with the skin and the eyes (acute effect):
 - Contact with the skin: Produces skin inflammation.
 - Contact with the eyes: Based on available data, the classification criteria are not met. However, it does contain substances classified as hazardous for this effect. For more information see section 3.
- D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):
 - Carcinogenicity: Exposure to this product can cause cancer. For more specific information on the possible health effects see section 2.
IARC: BENZYL ACETATE (3); EUGENOL (3); MYRCENE (2B); LIMONENE (3); METHYL EUGENOL (2B)
 - Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
 - Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- E- Sensitizing effects:
 - Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous with sensitising effects. For more information see section 3.
 - Skin: Prolonged contact with the skin can result in episodes of allergic contact dermatitis.
- F- Specific target organ toxicity (STOT) - single exposure:

Based on available data, the classification criteria are not met. However, it contains substances classified as hazardous for inhalation. For more information see section 3.
- G- Specific target organ toxicity (STOT)-repeated exposure:
 - Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
 - Skin: Based on available data, the classification criteria are not met. However, it does contain substances which are classified as dangerous due to repetitive exposure. For more information see section 3.
- H- Aspiration hazard:

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

Other information:

Non-applicable

Specific toxicology information on the substances:

Identification	Acute toxicity		Genus
PHENETHYL ALCOHOL CAS: 60-12-8 EC: 200-456-2	LD50 oral	1610 mg/kg	Rat
	LD50 dermal	2100 mg/kg	Rabbit
	LC50 inhalation	Non-applicable	
BENZOPHENONE-3 CAS: 131-57-7 EC: 205-031-5	LD50 oral	12800 mg/kg	Rat
	LD50 dermal	16000 mg/kg	Rat
	LC50 inhalation	Non-applicable	
BENZYL ACETATE CAS: 140-11-4 EC: 205-399-7	LD50 oral	2490 mg/kg	Rat
	LD50 dermal	Non-applicable	
	LC50 inhalation	Non-applicable	
ETHYL VANILLIN CAS: 121-32-4 EC: 204-464-7	LD50 oral	3000 mg/kg	Rat
	LD50 dermal	Non-applicable	
	LC50 inhalation	Non-applicable	

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SECTION 11: TOXICOLOGICAL INFORMATION ** (continued)

Identification	Acute toxicity		Genus
LIMONENE CAS: 5989-27-5 EC: 227-813-5	LD50 oral	4400 mg/kg	Rat
	LD50 dermal	>5000 mg/kg	Rabbit
	LC50 inhalation	Non-applicable	
LINALOOL CAS: 78-70-6 EC: 201-134-4	LD50 oral	3000 mg/kg	Rat
	LD50 dermal	5610 mg/kg	Rabbit
	LC50 inhalation	Non-applicable	
GERANIOL CAS: 106-24-1 EC: 203-377-1	LD50 oral	4200 mg/kg	Rat
	LD50 dermal	5100 mg/kg	Rabbit
	LC50 inhalation	Non-applicable	
LINALYL ACETATE CAS: 115-95-7 EC: 204-116-4	LD50 oral	14500 mg/kg	Rat
	LD50 dermal	5610 mg/kg	Rabbit
	LC50 inhalation	Non-applicable	
NEROL CAS: 106-25-2 EC: 203-378-7	LD50 oral	>5000 mg/kg	Rat
	LD50 dermal	Non-applicable	
	LC50 inhalation	Non-applicable	
alpha-ISOMETHYL IONONE CAS: 127-51-5 EC: 204-846-3	LD50 oral	>5000 mg/kg	Rat
	LD50 dermal	>5000 mg/kg	Rabbit
	LC50 inhalation	Non-applicable	
CITRONELLOL CAS: 106-22-9 EC: 203-375-0	LD50 oral	3450 mg/kg	Rat
	LD50 dermal	2650 mg/kg	
	LC50 inhalation	Non-applicable	
METHYL OCTINE CARBONATE CAS: 111-80-8 EC: 203-909-2	LD50 oral	2220 mg/kg	Rat
	LD50 dermal	4500 mg/kg	
	LC50 inhalation	Non-applicable	
ISOEUGENOL CAS: 97-54-1 EC: 202-590-7	LD50 oral	1500 mg/kg	Rat
	LD50 dermal	1100 mg/kg	Rat
	LC50 inhalation	Non-applicable	
ISOAMYL ACETATE CAS: 123-92-2 EC: 204-662-3	LD50 oral	7400 mg/kg	Rat
	LD50 dermal	Non-applicable	
	LC50 inhalation	Non-applicable	

11.2 Information on other hazards:

Endocrine disrupting properties

Endocrine-disrupting properties: The product fails to meet the criteria.

Other information

Non-applicable

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SECTION 12: ECOLOGICAL INFORMATION **

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

12.1 Toxicity:

Acute toxicity:

Identification	Concentration		Species	Genus
TETRAMETHYL ACETYLOCTAHYDRONAPHTHALENES CAS: 54464-57-2 EC: 259-174-3	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
HEXAMETHYLINDANOPYRAN CAS: 1222-05-5 EC: 214-946-9	LC50	0,95 mg/L (96 h)	Oryzias latipes	Fish
	EC50	0,194 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	0,723 mg/L (72 h)	Pseudokirchneriella subcapitata	Algae

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SECTION 12: ECOLOGICAL INFORMATION ** (continued)

Identification	Concentration	Species	Genus
PHENETHYL ALCOHOL	LC50	Non-applicable	
CAS: 60-12-8	EC50	330 mg/L (24 h)	Daphnia magna
EC: 200-456-2	EC50	490 mg/L (72 h)	Scenedesmus subspicatus
BENZYL ACETATE	LC50	Non-applicable	
CAS: 140-11-4	EC50	17 mg/L (48 h)	Daphnia magna
EC: 205-399-7	EC50	110 mg/L (72 h)	Desmodesmus subspicatus
MUSK KETONE	LC50	>0.1 - 1 mg/L (96 h)	Fish
CAS: 81-14-1	EC50	>0.1 - 1 mg/L (48 h)	Crustacean
EC: 201-328-9	EC50	>0.1 - 1 mg/L (72 h)	Algae
BENZOPHENONE-3	LC50	3,8 mg/L (96 h)	Oryzias latipes
CAS: 131-57-7	EC50	1,87 mg/L (48 h)	Daphnia magna
EC: 205-031-5	EC50	0,72 mg/L (72 h)	Pseudokirchneriella subcapitata
LIMONENE	LC50	>0.1 - 1 mg/L (96 h)	Fish
CAS: 5989-27-5	EC50	>0.1 - 1 mg/L (48 h)	Crustacean
EC: 227-813-5	EC50	>0.1 - 1 mg/L (72 h)	Algae
alpha-ISOMETHYL IONONE	LC50	>1 - 10 mg/L (96 h)	Fish
CAS: 127-51-5	EC50	>1 - 10 mg/L (48 h)	Crustacean
EC: 204-846-3	EC50	>1 - 10 mg/L (72 h)	Algae
METHYL OCTINE CARBONATE	LC50	>0.1 - 1 mg/L (96 h)	Fish
CAS: 111-80-8	EC50	>0.1 - 1 mg/L (48 h)	Crustacean
EC: 203-909-2	EC50	>0.1 - 1 mg/L (72 h)	Algae
ISOAMYL ACETATE	LC50	Non-applicable	
CAS: 123-92-2	EC50	42 mg/L (48 h)	Daphnia magna
EC: 204-662-3	EC50	Non-applicable	

Chronic toxicity:

Identification	Concentration	Species	Genus
BENZYL ACETATE	NOEC	0,92 mg/L	Oryzias latipes
CAS: 140-11-4 EC: 205-399-7	NOEC	Non-applicable	
BUTYL METHOXYDIBENZOYLMETHANE	NOEC	Non-applicable	
CAS: 70356-09-1 EC: 274-581-6	NOEC	0,003 mg/L	Daphnia magna

12.2 Persistence and degradability:

Substance-specific information:

Identification	Degradability	Biodegradability
PHENETHYL ALCOHOL	BOD5	Non-applicable
CAS: 60-12-8	COD	Non-applicable
EC: 200-456-2	BOD5/COD	Non-applicable
BENZYL ACETATE	BOD5	Non-applicable
CAS: 140-11-4	COD	Non-applicable
EC: 205-399-7	BOD5/COD	Non-applicable
BENZOPHENONE-3	BOD5	Non-applicable
CAS: 131-57-7	COD	2,2 g O2/g
EC: 205-031-5	BOD5/COD	Non-applicable
LIMONENE	BOD5	Non-applicable
CAS: 5989-27-5	COD	Non-applicable
EC: 227-813-5	BOD5/COD	Non-applicable
LINALOOL	BOD5	Non-applicable
CAS: 78-70-6	COD	Non-applicable
EC: 201-134-4	BOD5/COD	Non-applicable
GERANIOL	BOD5	Non-applicable
CAS: 106-24-1	COD	Non-applicable
EC: 203-377-1	BOD5/COD	Non-applicable

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SECTION 12: ECOLOGICAL INFORMATION ** (continued)

Identification	Degradability		Biodegradability	
LINALYL ACETATE CAS: 115-95-7 EC: 204-116-4	BOD5	Non-applicable	Concentration	81 mg/L
	COD	Non-applicable	Period	28 days
	BOD5/COD	Non-applicable	% Biodegradable	80 %
NEROL CAS: 106-25-2 EC: 203-378-7	BOD5	Non-applicable	Concentration	2 mg/L
	COD	Non-applicable	Period	28 days
	BOD5/COD	Non-applicable	% Biodegradable	90 %
alpha-ISOMETHYL IONONE CAS: 127-51-5 EC: 204-846-3	BOD5	Non-applicable	Concentration	4 mg/L
	COD	Non-applicable	Period	28 days
	BOD5/COD	Non-applicable	% Biodegradable	42,51 %
METHYL OCTINE CARBONATE CAS: 111-80-8 EC: 203-909-2	BOD5	Non-applicable	Concentration	30 mg/L
	COD	Non-applicable	Period	28 days
	BOD5/COD	Non-applicable	% Biodegradable	71 %

12.3 Bioaccumulative potential:

Substance-specific information:

Identification	Bioaccumulation potential	
HEXAMETHYLINDANOPYRAN CAS: 1222-05-5 EC: 214-946-9	BCF	1584
	Pow Log	5.9
	Potential	Very High
PHENETHYL ALCOHOL CAS: 60-12-8 EC: 200-456-2	BCF	6
	Pow Log	1.36
	Potential	Low
BENZYL ACETATE CAS: 140-11-4 EC: 205-399-7	BCF	8
	Pow Log	1.96
	Potential	Low
MUSK KETONE CAS: 81-14-1 EC: 201-328-9	BCF	1380
	Pow Log	4.3
	Potential	Very High
BUTYL METHOXYDIBENZOYLMETHANE CAS: 70356-09-1 EC: 274-581-6	BCF	85
	Pow Log	4.81
	Potential	Moderate
BENZOPHENONE-3 CAS: 131-57-7 EC: 205-031-5	BCF	160
	Pow Log	3.45
	Potential	High
LIMONENE CAS: 5989-27-5 EC: 227-813-5	BCF	
	Pow Log	4.83
	Potential	
LINALOOL CAS: 78-70-6 EC: 201-134-4	BCF	
	Pow Log	2.97
	Potential	
GERANIOL CAS: 106-24-1 EC: 203-377-1	BCF	110
	Pow Log	3.56
	Potential	High
LINALYL ACETATE CAS: 115-95-7 EC: 204-116-4	BCF	174
	Pow Log	3.9
	Potential	High
NEROL CAS: 106-25-2 EC: 203-378-7	BCF	44
	Pow Log	2.76
	Potential	Moderate
alpha-ISOMETHYL IONONE CAS: 127-51-5 EC: 204-846-3	BCF	
	Pow Log	3.49
	Potential	

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SECTION 12: ECOLOGICAL INFORMATION ** (continued)

Identification	Bioaccumulation potential	
ISOAMYL ACETATE	BCF	10
CAS: 123-92-2	Pow Log	
EC: 204-662-3	Potential	Low

12.4 Mobility in soil:

Identification	Absorption/desorption		Volatility	
PHENETHYL ALCOHOL CAS: 60-12-8 EC: 200-456-2	Koc	Non-applicable	Henry	Non-applicable
	Conclusion	Non-applicable	Dry soil	Non-applicable
	Surface tension	3,807E-2 N/m (25 °C)	Moist soil	Non-applicable
BENZYL ACETATE CAS: 140-11-4 EC: 205-399-7	Koc	Non-applicable	Henry	Non-applicable
	Conclusion	Non-applicable	Dry soil	Non-applicable
	Surface tension	3,558E-2 N/m (25 °C)	Moist soil	Non-applicable
MUSK KETONE CAS: 81-14-1 EC: 201-328-9	Koc	8700	Henry	1,925E-4 Pa·m ³ /mol
	Conclusion	Immobile	Dry soil	Non-applicable
	Surface tension	Non-applicable	Moist soil	No
ETHYL VANILLIN CAS: 121-32-4 EC: 204-464-7	Koc	Non-applicable	Henry	Non-applicable
	Conclusion	Non-applicable	Dry soil	Non-applicable
	Surface tension	1,87E-2 N/m (276,18 °C)	Moist soil	Non-applicable
BUTYL METHOXYDIBENZOYLMETHANE CAS: 70356-09-1 EC: 274-581-6	Koc	1700	Henry	2,128E-5 Pa·m ³ /mol
	Conclusion	Low	Dry soil	No
	Surface tension	Non-applicable	Moist soil	No
BENZOPHENONE-3 CAS: 131-57-7 EC: 205-031-5	Koc	955	Henry	1,52E-3 Pa·m ³ /mol
	Conclusion	Low	Dry soil	Non-applicable
	Surface tension	Non-applicable	Moist soil	Non-applicable
LIMONENE CAS: 5989-27-5 EC: 227-813-5	Koc	6324	Henry	2533,13 Pa·m ³ /mol
	Conclusion	Immobile	Dry soil	Yes
	Surface tension	2,675E-2 N/m (25 °C)	Moist soil	Yes
LINALYL ACETATE CAS: 115-95-7 EC: 204-116-4	Koc	518	Henry	177 Pa·m ³ /mol
	Conclusion	Low	Dry soil	Yes
	Surface tension	Non-applicable	Moist soil	Yes
NEROL CAS: 106-25-2 EC: 203-378-7	Koc	94	Henry	Non-applicable
	Conclusion	High	Dry soil	Non-applicable
	Surface tension	Non-applicable	Moist soil	Non-applicable
alpha-ISOMETHYL IONONE CAS: 127-51-5 EC: 204-846-3	Koc	3061.96	Henry	Non-applicable
	Conclusion	Low	Dry soil	Non-applicable
	Surface tension	Non-applicable	Moist soil	Non-applicable
ISOAMYL ACETATE CAS: 123-92-2 EC: 204-662-3	Koc	70	Henry	59,78 Pa·m ³ /mol
	Conclusion	Very High	Dry soil	Non-applicable
	Surface tension	2,388E-2 N/m (25 °C)	Moist soil	Yes

12.5 Results of PBT and vPvB assessment:

Product fails to meet PBT/vPvB criteria

12.6 Endocrine disrupting properties:

Endocrine-disrupting properties: The product fails to meet the criteria.

12.7 Other adverse effects:

Not described

**** Changes with regards to the previous version**

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:

- CONTINUED ON NEXT PAGE -



SECTION 13: DISPOSAL CONSIDERATIONS (continued)

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	Dangerous

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

HP14 Ecotoxic, HP7 Carcinogenic, HP13 Sensitising

Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations in accordance with Annex 1 and Annex 2 (Directive 2008/98/EC). As under 15 01 (2014/955/EC) of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. Waste should not be disposed of to drains. See paragraph 6.2.

Regulations related to waste management:

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

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

SECTION 14: TRANSPORT INFORMATION

Transport of dangerous goods by land:

With regard to ADR 2021 and RID 2021:



- 14.1 UN number or ID number:** UN3082
- 14.2 UN proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (TETRAMETHYL ACETYLOCTAHYDRONAPHTHALENES)
- 14.3 Transport hazard class(es):** 9
- Labels:** 9
- 14.4 Packing group:** III
- 14.5 Environmental hazards:** Yes
- 14.6 Special precautions for user**
- Special regulations: 274, 335, 375, 601
- Tunnel restriction code: -
- Physico-Chemical properties: see section 9
- Limited quantities: 5 L
- 14.7 Maritime transport in bulk according to IMO instruments:** Non-applicable

Transport of dangerous goods by sea:

With regard to IMDG 40-20:



- 14.1 UN number or ID number:** UN3082
- 14.2 UN proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (TETRAMETHYL ACETYLOCTAHYDRONAPHTHALENES)
- 14.3 Transport hazard class(es):** 9
- Labels:** 9
- 14.4 Packing group:** III
- 14.5 Marine pollutant:** Yes
- 14.6 Special precautions for user**
- Special regulations: 335, 969, 274
- EmS Codes: F-A, S-F
- Physico-Chemical properties: see section 9
- Limited quantities: 5 L
- Segregation group: Non-applicable
- 14.7 Maritime transport in bulk according to IMO instruments:** Non-applicable

Transport of dangerous goods by air:

With regard to IATA/ICAO 2023:

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SECTION 14: TRANSPORT INFORMATION (continued)



- 14.1 UN number or ID number:** UN3082
14.2 UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (TETRAMETHYL ACETYLOCTAHYDRONAPHTHALENES)
14.3 Transport hazard class(es): 9
Labels: 9
14.4 Packing group: III
14.5 Environmental hazards: Yes
14.6 Special precautions for user
Physico-Chemical properties: see section 9
14.7 Maritime transport in bulk according to IMO instruments: 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: GERANIOL (Product-type 18, 19)
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	ENVIRONMENTAL HAZARDS	200	500

Limitations to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII REACH, etc):

Shall not be used in:

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

Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as a basis for conducting workplace-specific risk assessments in order to establish the necessary risk prevention measures for the handling, use, storage and disposal of this product.

Other legislation:

The product could be affected by sectorial legislation

15.2 Chemical safety assessment:

The supplier has not carried out evaluation of chemical safety.

SECTION 16: OTHER INFORMATION

Legislation related to safety data sheets:

The SDS shall be supplied in an official language of the country where the product is placed on the market. This safety data sheet has been designed in accordance with ANNEX II-Guide to the compilation of safety data sheets of Regulation (EC) No 1907/2006 (COMMISSION REGULATION (EU) 2020/878).

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

- CONTINUED ON NEXT PAGE -



SECTION 16: OTHER INFORMATION (continued)

COMMISSION REGULATION (EU) 2020/878
COMPOSITION/INFORMATION ON INGREDIENTS (SECTION 3, SECTION 11, SECTION 12):

- New declared substances
alpha-ISOMETHYL IONONE (127-51-5)

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

- Substances contained in EUH208:
· New declared substances
alpha-ISOMETHYL IONONE (127-51-5)

Texts of the legislative phrases mentioned in section 2:

H317: May cause an allergic skin reaction.
H411: Toxic to aquatic life with long lasting effects.
H351: Suspected of causing cancer.
H315: Causes skin irritation.

Texts of the legislative phrases mentioned in section 3:

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

CLP Regulation (EC) No 1272/2008:

Acute Tox. 4: H302 - Harmful if swallowed.
Acute Tox. 4: H302+H312+H332 - Harmful if swallowed, in contact with skin or 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.
Aquatic Chronic 4: H413 - May cause long lasting harmful effects to aquatic life.
Asp. Tox. 1: H304 - May be fatal if swallowed and enters airways.
Carc. 2: H351 - Suspected of causing cancer.
Eye Dam. 1: H318 - Causes serious eye damage.
Eye Irrit. 2: H319 - Causes serious eye irritation.
Flam. Liq. 3: H226 - Flammable liquid and vapour.
Skin Irrit. 2: H315 - Causes skin irritation.
Skin Sens. 1: H317 - May cause an allergic skin reaction.
Skin Sens. 1A: H317 - May cause an allergic skin reaction.
Skin Sens. 1B: H317 - May cause an allergic skin reaction.
STOT SE 3: H335 - May cause respiratory irritation.

Classification procedure:

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

Advice related to training:

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

Principal bibliographical sources:

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

Abbreviations and acronyms:

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

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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 -