



RASPBERRY MORS - FR3840

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

- 1.1 Product identifier:** RASPBERRY MORS - FR3840
- 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
 www.fragrancescience.com
- 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
 Skin Sens. 1B: Sensitisation, skin, Category 1B, 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.
 Skin Sens. 1B: H317 - May cause an allergic skin reaction.
Precautionary statements:
 P261: Avoid breathing dust/fume/gas/mist/vapours/spray
 P272: Contaminated work clothing should not be allowed out of the workplace
 P273: Avoid release to the environment
 P280: Wear protective gloves/protective clothing/eye protection/face protection
 P302+P352: IF ON SKIN: Wash with plenty of water
 P333+P313: If skin irritation or rash occurs: Get medical advice/attention
 P391: Collect spillage
 P501: Dispose of contents/container in accordance with regulations on hazardous waste or packaging and packaging waste respectively
Supplementary information:
 Contains 3,4-dihydro-2,5,7,8-tetramethyl-2-(4,8,12-trimethyltridecyl)-2H-benzopyran-6-ol, BENZYL SALICYLATE, LINALYL ACETATE, Pentadecan-15-olide
Substances that contribute to the classification
 TETRAMETHYL ACETYLOCTAHYDRONAPHTHALENES
- 2.3 Other hazards:**
 Product fails to meet PBT/vPvB criteria

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

- 3.1 Substance:**
 Non-applicable
- 3.2 Mixture:**

- CONTINUED ON NEXT PAGE -














RASPBERRY MORS - FR3840

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS (continued)

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	2,5 - <10 %
	Regulation 1272/2008	Aquatic Chronic 1: H410; Skin Irrit. 2: H315; Skin Sens. 1B: H317 - Warning 	
CAS: 88-41-5 EC: 201-828-7 Index: Non-applicable REACH: Non-applicable	2-t-BUTYLCYCLOHEXYL ACETATE⁽¹⁾	Self-classified	1 - <2,5 %
	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	1 - <2,5 %
	Regulation 1272/2008	Aquatic Chronic 3: H412	
CAS: 1222-05-5 EC: 214-946-9 Index: Non-applicable REACH: 01-2119488227-29-XXXX	HEXAMETHYLINDANOPYRAN⁽¹⁾	ATP ATP01	1 - <2,5 %
	Regulation 1272/2008	Aquatic Acute 1: H400; Aquatic Chronic 1: H410 - Warning 	
CAS: 121-33-5 EC: 204-465-2 Index: Non-applicable REACH: 01-2119516040-60-XXXX	VANILLIN⁽¹⁾	Self-classified	1 - <2,5 %
	Regulation 1272/2008	Eye Irrit. 2: H319 - Warning 	
CAS: 14901-07-6 EC: 238-969-9 Index: Non-applicable REACH: Non-applicable	MIXED IONONES⁽¹⁾	Self-classified	1 - <2,5 %
	Regulation 1272/2008	Aquatic Chronic 2: H411 	
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: 4940-11-8 EC: 225-582-5 Index: Non-applicable REACH: 01-2120758795-36-XXXX	2-ethyl-3-hydroxy-4-pyrone⁽¹⁾	Self-classified	1 - <2,5 %
	Regulation 1272/2008	Acute Tox. 4: H302 - Warning 	
CAS: 131-57-7 EC: 205-031-5 Index: Non-applicable REACH: 01-2119976330-39-XXXX	2-hydroxy-4-methoxybenzophenone⁽¹⁾	Self-classified	<1 %
	Regulation 1272/2008	Aquatic Acute 1: H400; Aquatic Chronic 2: H411 - Warning 	
CAS: 115-95-7 EC: 204-116-4 Index: Non-applicable REACH: 01-2119454789-19-XXXX	LINALYL ACETATE⁽¹⁾	Self-classified	<1 %
	Regulation 1272/2008	Eye Irrit. 2: H319; Skin Irrit. 2: H315; Skin Sens. 1: H317 - Warning 	
CAS: 81-14-1 EC: 201-328-9 Index: 609-069-00-7 REACH: 01-2119969442-31-XXXX	musk ketone⁽¹⁾	ATP ATP01	<1 %
	Regulation 1272/2008	Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Carc. 2: H351 - Warning 	
CAS: 118-58-1 EC: 204-262-9 Index: Non-applicable REACH: 01-2119969442-31-XXXX	BENZYL SALICYLATE⁽¹⁾	Self-classified	<1 %
	Regulation 1272/2008	Aquatic Chronic 3: H412; Eye Irrit. 2: H319; Skin Sens. 1B: H317 - Warning 	
CAS: 111879-80-2 EC: 422-320-3 Index: Non-applicable REACH: 01-0000016883-62-XXXX	reaction mass of: (E)-oxacyclohexadec-12-en-2-one⁽¹⁾	Self-classified	<1 %
	Regulation 1272/2008	Aquatic Acute 1: H400; Aquatic Chronic 1: H410 - Warning 	
CAS: 123-92-2 EC: 204-662-3 Index: Non-applicable REACH: 01-2119548408-32-XXXX	ISOAMYL ACETATE⁽²⁾	ATP CLP00	<1 %
	Regulation 1272/2008	Flam. Liq. 3: H226; EUH066 - Warning 	








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

⁽²⁾ Substance with a Union workplace exposure limit

- CONTINUED ON NEXT PAGE -

RASPBERRY MORS - FR3840

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS (continued)

Identification	Chemical name/Classification		Concentration
CAS: 106-02-5 EC: 203-354-6 Index: Non-applicable REACH: 01-2119987323-31-XXXX	Pentadecan-15-olide⁽¹⁾ Self-classified		<1 %
	Regulation 1272/2008	Aquatic Chronic 2: H411; Skin Sens. 1B: H317 - Warning  	
CAS: 10191-41-0 EC: 233-466-0 Index: Non-applicable REACH: 01-2120086658-39-XXXX	3,4-dihydro-2,5,7,8-tetramethyl-2-(4,8,12-trimethyltridecyl)-2H-benzopyran-6-ol⁽¹⁾ Self-classified		<1 %
	Regulation 1272/2008	Skin Sens. 1B: H317 - Warning 	
CAS: 142-19-8 EC: 205-527-1 Index: Non-applicable REACH: 01-2119967769-11-XXXX	Allyl heptanoate⁽¹⁾ Self-classified		<1 %
	Regulation 1272/2008	Acute Tox. 3: H301+H311; Aquatic Acute 1: H400; Aquatic Chronic 3: H412 - Danger  	
CAS: 141-78-6 EC: 205-500-4 Index: Non-applicable REACH: 01-2119475103-46-XXXX	ETHYL ACETATE⁽²⁾ ATP CLP00		<1 %
	Regulation 1272/2008	Eye Irrit. 2: H319; Flam. Liq. 2: H225; STOT SE 3: H336; EUH066 - Danger  	

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

⁽²⁾ Substance with a Union workplace exposure limit

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:

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

By skin contact:

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

By eye contact:

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

By ingestion/aspiration:

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

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

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

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

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:

- CONTINUED ON NEXT PAGE -

RASPBERRY MORS - FR3840

SECTION 5: FIREFIGHTING MEASURES (continued)

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:

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

Minimum Temp.: 5 °C

Maximum Temp.: 30 °C

Maximum time: 24 Months

B.- General conditions for storage

- CONTINUED ON NEXT PAGE -

RASPBERRY MORS - FR3840

SECTION 7: HANDLING AND STORAGE (continued)

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):

Identification	Occupational exposure limits		
ETHYL ACETATE CAS: 141-78-6 EC: 205-500-4	IOELV (8h)	200 ppm	734 mg/m ³
	IOELV (STEL)	400 ppm	1468 mg/m ³
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
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
HEXAMETHYLINDANOPYRAN CAS: 1222-05-5 EC: 214-946-9	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	60 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	22 mg/m ³	Non-applicable
MIXED IONONES CAS: 14901-07-6 EC: 238-969-9	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	2,191 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	2,498 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
2-ethyl-3-hydroxy-4-pyrone CAS: 4940-11-8 EC: 225-582-5	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	16,7 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	58,7 mg/m ³	Non-applicable
2-hydroxy-4-methoxybenzophenone 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
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
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
BENZYL SALICYLATE CAS: 118-58-1 EC: 204-262-9	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	0,9 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	3,17 mg/m ³	Non-applicable
3,4-dihydro-2,5,7,8-tetramethyl-2-(4,8,12-trimethyltridecyl)-2H-benzopyran-6-ol 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
Allyl heptanoate CAS: 142-19-8 EC: 205-527-1	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	0,84 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	2,97 mg/m ³	Non-applicable
ETHYL ACETATE CAS: 141-78-6 EC: 205-500-4	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	63 mg/kg	Non-applicable
	Inhalation	1468 mg/m ³	1468 mg/m ³	734 mg/m ³	734 mg/m ³

- CONTINUED ON NEXT PAGE -

RASPBERRY MORS - FR3840

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

DNEL (General population):

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
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
HEXAMETHYLINDANOPYRAN CAS: 1222-05-5 EC: 214-946-9	Oral	Non-applicable	Non-applicable	3,8 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	36 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	6,5 mg/m ³	Non-applicable
MIXED IONONES CAS: 14901-07-6 EC: 238-969-9	Oral	Non-applicable	Non-applicable	4,383 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	0,54 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	0,621 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
2-ethyl-3-hydroxy-4-pyrone CAS: 4940-11-8 EC: 225-582-5	Oral	Non-applicable	Non-applicable	10 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	10 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	17,4 mg/m ³	Non-applicable
2-hydroxy-4-methoxybenzophenone 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
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
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
BENZYL SALICYLATE CAS: 118-58-1 EC: 204-262-9	Oral	Non-applicable	Non-applicable	0,45 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	0,45 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	0,78 mg/m ³	Non-applicable
3,4-dihydro-2,5,7,8-tetramethyl-2-(4,8,12-trimethyltridecyl)-2H-benzopyran-6-ol 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
Allyl heptanoate CAS: 142-19-8 EC: 205-527-1	Oral	Non-applicable	Non-applicable	0,42 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	0,42 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	0,73 mg/m ³	Non-applicable
ETHYL ACETATE CAS: 141-78-6 EC: 205-500-4	Oral	Non-applicable	Non-applicable	4,5 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	37 mg/kg	Non-applicable
	Inhalation	734 mg/m ³	734 mg/m ³	367 mg/m ³	367 mg/m ³

PNEC:

Identification					
BENZYL ACETATE CAS: 140-11-4 EC: 205-399-7	STP	8,55 mg/L	Fresh water	0,018 mg/L	
	Soil	0,094 mg/kg	Marine water	0,002 mg/L	
	Intermittent	0,04 mg/L	Sediment (Fresh water)	0,526 mg/kg	
	Oral	Non-applicable	Sediment (Marine water)	0,053 mg/kg	
HEXAMETHYLINDANOPYRAN CAS: 1222-05-5 EC: 214-946-9	STP	1 mg/L	Fresh water	0,0044 mg/L	
	Soil	0,31 mg/kg	Marine water	0,00044 mg/L	
	Intermittent	0,03 mg/L	Sediment (Fresh water)	2 mg/kg	
	Oral	0,0033 g/kg	Sediment (Marine water)	0,394 mg/kg	
VANILLIN CAS: 121-33-5 EC: 204-465-2	STP	10 mg/L	Fresh water	0,118 mg/L	
	Soil	11,54 mg/kg	Marine water	0,012 mg/L	
	Intermittent	Non-applicable	Sediment (Fresh water)	58,22 mg/kg	
	Oral	Non-applicable	Sediment (Marine water)	5,822 mg/kg	

- CONTINUED ON NEXT PAGE -

RASPBERRY MORS - FR3840

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

Identification				
MIXED IONONES CAS: 14901-07-6 EC: 238-969-9	STP	0,043 mg/L	Fresh water	0,001 mg/L
	Soil	10,466 mg/kg	Marine water	0 mg/L
	Intermittent	0,015 mg/L	Sediment (Fresh water)	22,451 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	22,451 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
2-ethyl-3-hydroxy-4-pyrone CAS: 4940-11-8 EC: 225-582-5	STP	1,55 mg/L	Fresh water	0,0072 mg/L
	Soil	0,049 mg/kg	Marine water	0,00072 mg/L
	Intermittent	Non-applicable	Sediment (Fresh water)	0,27 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,027 mg/kg
2-hydroxy-4-methoxybenzophenone 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
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
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
BENZYL SALICYLATE CAS: 118-58-1 EC: 204-262-9	STP	10 mg/L	Fresh water	0,001 mg/L
	Soil	1,41 mg/kg	Marine water	0 mg/L
	Intermittent	0,01 mg/L	Sediment (Fresh water)	0,583 mg/kg
	Oral	0,08 g/kg	Sediment (Marine water)	0,058 mg/kg
reaction mass of: (E)-oxacyclohexadec-12-en-2-one CAS: 111879-80-2 EC: 422-320-3	STP	10 mg/L	Fresh water	0,0027 mg/L
	Soil	5,44 mg/kg	Marine water	0,00027 mg/L
	Intermittent	Non-applicable	Sediment (Fresh water)	21 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	4,2 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
Pentadecan-15-olide CAS: 106-02-5 EC: 203-354-6	STP	10 mg/L	Fresh water	0,0027 mg/L
	Soil	5,44 mg/kg	Marine water	0,00027 mg/L
	Intermittent	Non-applicable	Sediment (Fresh water)	21 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	4,2 mg/kg
3,4-dihydro-2,5,7,8-tetramethyl-2-(4,8,12-trimethyltridecyl)-2H-benzopyran-6-ol 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
Allyl heptanoate CAS: 142-19-8 EC: 205-527-1	STP	10 mg/L	Fresh water	0,00012 mg/L
	Soil	0,002 mg/kg	Marine water	0,000012 mg/L
	Intermittent	0,0012 mg/L	Sediment (Fresh water)	0,012 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,001 mg/kg
ETHYL ACETATE CAS: 141-78-6 EC: 205-500-4	STP	650 mg/L	Fresh water	0,24 mg/L
	Soil	0,148 mg/kg	Marine water	0,024 mg/L
	Intermittent	1,65 mg/L	Sediment (Fresh water)	1,15 mg/kg
	Oral	0,2 g/kg	Sediment (Marine water)	0,115 mg/kg

8.2 Exposure controls:

- CONTINUED ON NEXT PAGE -

RASPBERRY MORS - FR3840



SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

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



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	Protective gloves against minor risks	 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 420:2004+A1:2010 and EN ISO 374-1:2016+A1:2018

"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.	 CAT II	EN 166:2002 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
	Work clothing	 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	 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):	2,33 % weight
V.O.C. density at 20 °C:	23,91 kg/m³ (23,91 g/L)

- CONTINUED ON NEXT PAGE -

RASPBERRY MORS - FR3840

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

Average carbon number:	8,7
Average molecular weight:	146,05 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:	Light yellow
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:	1016,2 - 1036,2 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 *
Explosive properties:	Non-applicable *
Oxidising properties:	Non-applicable *

Flammability:

Flash Point:	Non Flammable (>60 °C)
Flammability (solid, gas):	Non-applicable *
Autoignition temperature:	Non-applicable *
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 °C:	Non-applicable *
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*Not relevant due to the nature of the product, not providing information property of its hazards.

- CONTINUED ON NEXT PAGE -

RASPBERRY MORS - FR3840

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)

Refraction index: 1,4575 - 1,4675

*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

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 : Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for inhalation. For more information see section 3.
- Corrosivity/Irritability: Based on available data, the classification criteria are not met, as it does not contain substances classified as 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: 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.

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

- CONTINUED ON NEXT PAGE -

RASPBERRY MORS - FR3840

SECTION 11: TOXICOLOGICAL INFORMATION (continued)

- Carcinogenicity: Based on available data, the classification criteria are not met. However, it contains substances classified as dangerous with carcinogenic effects. For more information see section 3.
- IARC: BENZYL ACETATE (3); p-menth-4(8)-en-3-one (2B); ethanol (1); MYRCENE (2B); d-limonene (3)
- 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, as it does not 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. However, it contains substances classified as dangerous 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 dangerous for this effect. For more information see section 3.
- Skin: 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.

H- Aspiration hazard:

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.

Other information:

Non-applicable

Specific toxicology information on the substances:

Identification	Acute toxicity		Genus
Allyl heptanoate CAS: 142-19-8 EC: 205-527-1	LD50 oral	218 mg/kg	Rat
	LD50 dermal	810 mg/kg	Rabbit
	LC50 inhalation	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	
2-ethyl-3-hydroxy-4-pyrone CAS: 4940-11-8 EC: 225-582-5	LD50 oral	1200 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	
VANILLIN CAS: 121-33-5 EC: 204-465-2	LD50 oral	3500 mg/kg	Rat
	LD50 dermal	Non-applicable	
	LC50 inhalation	Non-applicable	
2-t-BUTYLCYCLOHEXYL ACETATE CAS: 88-41-5 EC: 201-828-7	LD50 oral	4600 mg/kg	Rat
	LD50 dermal	Non-applicable	
	LC50 inhalation	Non-applicable	
2-hydroxy-4-methoxybenzophenone CAS: 131-57-7 EC: 205-031-5	LD50 oral	12800 mg/kg	Rat
	LD50 dermal	16000 mg/kg	Rat
	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	

- CONTINUED ON NEXT PAGE -

RASPBERRY MORS - FR3840

SECTION 11: TOXICOLOGICAL INFORMATION (continued)

Identification	Acute toxicity		Genus
BENZYL SALICYLATE CAS: 118-58-1 EC: 204-262-9	LD50 oral	2200 mg/kg	Rat
	LD50 dermal	14150 mg/kg	Rabbit
	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	
ETHYL ACETATE CAS: 141-78-6 EC: 205-500-4	LD50 oral	4100 mg/kg	Rat
	LD50 dermal	20000 mg/kg	Rabbit
	LC50 inhalation	Non-applicable	

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
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		Crustacean
	EC50	0.1 - 1 mg/L		Algae
2-t-BUTYLCYCLOHEXYL ACETATE CAS: 88-41-5 EC: 201-828-7	LC50	1 - 10 mg/L (96 h)		Fish
	EC50	1 - 10 mg/L		Crustacean
	EC50	1 - 10 mg/L		Algae
BENZYL ACETATE CAS: 140-11-4 EC: 205-399-7	LC50	Non-applicable		
	EC50	17 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	110 mg/L (72 h)	Desmodesmus subspicatus	Algae
HEXAMETHYLINDANOPYRAN CAS: 1222-05-5 EC: 214-946-9	LC50	0.1 - 1 mg/L (96 h)		Fish
	EC50	0.1 - 1 mg/L		Crustacean
	EC50	0.1 - 1 mg/L		Algae
VANILLIN CAS: 121-33-5 EC: 204-465-2	LC50	57 mg/L (96 h)	Pimephales promelas	Fish
	EC50	Non-applicable		
	EC50	Non-applicable		
MIXED IONONES CAS: 14901-07-6 EC: 238-969-9	LC50	1 - 10 mg/L (96 h)		Fish
	EC50	1 - 10 mg/L		Crustacean
	EC50	1 - 10 mg/L		Algae
2-hydroxy-4-methoxybenzophenone CAS: 131-57-7 EC: 205-031-5	LC50	3.8 mg/L (96 h)	Oryzias latipes	Fish
	EC50	1.87 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	0.72 mg/L (72 h)	Pseudokirchneriella subcapitata	Algae
musk ketone CAS: 81-14-1 EC: 201-328-9	LC50	0.1 - 1 mg/L (96 h)		Fish
	EC50	0.1 - 1 mg/L		Crustacean
	EC50	0.1 - 1 mg/L		Algae
BENZYL SALICYLATE CAS: 118-58-1 EC: 204-262-9	LC50	1.03 mg/L (96 h)	Brachydanio rerio	Fish
	EC50	1.2 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	1.3 mg/L (72 h)	Selenastrum capricornutum	Algae
reaction mass of: (E)-oxacyclohexadec-12-en-2-one CAS: 111879-80-2 EC: 422-320-3	LC50	0.1 - 1 mg/L (96 h)		Fish
	EC50	0.1 - 1 mg/L		Crustacean
	EC50	0.1 - 1 mg/L		Algae
ISOAMYL ACETATE CAS: 123-92-2 EC: 204-662-3	LC50	Non-applicable		
	EC50	42 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	Non-applicable		
Pentadecan-15-olide CAS: 106-02-5 EC: 203-354-6	LC50	1 - 10 mg/L (96 h)		Fish
	EC50	1 - 10 mg/L		Crustacean
	EC50	1 - 10 mg/L		Algae

- CONTINUED ON NEXT PAGE -

RASPBERRY MORS - FR3840

SECTION 12: ECOLOGICAL INFORMATION (continued)

Identification	Acute toxicity		Species	Genus
Allyl heptanoate CAS: 142-19-8 EC: 205-527-1	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
ETHYL ACETATE CAS: 141-78-6 EC: 205-500-4	LC50	230 mg/L (96 h)	Pimephales promelas	Fish
	EC50	717 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	3300 mg/L (48 h)	Scenedesmus subspicatus	Algae

12.2 Persistence and degradability:

Identification	Degradability		Biodegradability	
BENZYL ACETATE CAS: 140-11-4 EC: 205-399-7	BOD5	Non-applicable	Concentration	10 mg/L
	COD	Non-applicable	Period	28 days
	BOD5/COD	Non-applicable	% Biodegradable	100 %
VANILLIN CAS: 121-33-5 EC: 204-465-2	BOD5	Non-applicable	Concentration	100 mg/L
	COD	Non-applicable	Period	14 days
	BOD5/COD	Non-applicable	% Biodegradable	97 %
2-hydroxy-4-methoxybenzophenone CAS: 131-57-7 EC: 205-031-5	BOD5	Non-applicable	Concentration	100 mg/L
	COD	2.2 g O2/g	Period	28 days
	BOD5/COD	Non-applicable	% Biodegradable	65 %
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 %
BENZYL SALICYLATE CAS: 118-58-1 EC: 204-262-9	BOD5	Non-applicable	Concentration	100 mg/L
	COD	Non-applicable	Period	28 days
	BOD5/COD	Non-applicable	% Biodegradable	93 %
Allyl heptanoate CAS: 142-19-8 EC: 205-527-1	BOD5	Non-applicable	Concentration	100 mg/L
	COD	Non-applicable	Period	28 days
	BOD5/COD	Non-applicable	% Biodegradable	81 %
ETHYL ACETATE CAS: 141-78-6 EC: 205-500-4	BOD5	1.36 g O2/g	Concentration	100 mg/L
	COD	1.69 g O2/g	Period	14 days
	BOD5/COD	0.81	% Biodegradable	83 %

12.3 Bioaccumulative potential:

Identification	Bioaccumulation potential	
BENZYL ACETATE CAS: 140-11-4 EC: 205-399-7	BCF	8
	Pow Log	1.96
	Potential	Low
HEXAMETHYLINDANOPYRAN CAS: 1222-05-5 EC: 214-946-9	BCF	1584
	Pow Log	5.9
	Potential	Very High
VANILLIN CAS: 121-33-5 EC: 204-465-2	BCF	6
	Pow Log	1.37
	Potential	Low
2-hydroxy-4-methoxybenzophenone CAS: 131-57-7 EC: 205-031-5	BCF	160
	Pow Log	3.45
	Potential	High
LINALYL ACETATE CAS: 115-95-7 EC: 204-116-4	BCF	174
	Pow Log	3.9
	Potential	High
musk ketone CAS: 81-14-1 EC: 201-328-9	BCF	1380
	Pow Log	4.3
	Potential	Very High
BENZYL SALICYLATE CAS: 118-58-1 EC: 204-262-9	BCF	311
	Pow Log	4
	Potential	High

- CONTINUED ON NEXT PAGE -

RASPBERRY MORS - FR3840

SECTION 12: ECOLOGICAL INFORMATION (continued)

Identification	Bioaccumulation potential	
ISOAMYL ACETATE CAS: 123-92-2 EC: 204-662-3	BCF	10
	Pow Log	
	Potential	Low
Allyl heptanoate CAS: 142-19-8 EC: 205-527-1	BCF	473
	Pow Log	2.99
	Potential	High
ETHYL ACETATE CAS: 141-78-6 EC: 205-500-4	BCF	30
	Pow Log	0.73
	Potential	Moderate

12.4 Mobility in soil:

Identification	Absorption/desorption		Volatility	
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
VANILLIN CAS: 121-33-5 EC: 204-465-2	Koc	130	Henry	2,128E-4 Pa·m ³ /mol
	Conclusion	Very High	Dry soil	No
	Surface tension	Non-applicable	Moist soil	No
MIXED IONONES CAS: 14901-07-6 EC: 238-969-9	Koc	Non-applicable	Henry	Non-applicable
	Conclusion	Non-applicable	Dry soil	Non-applicable
	Surface tension	3,952E-2 N/m (20 °C)	Moist soil	Non-applicable
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
2-hydroxy-4-methoxybenzophenone 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
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
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
BENZYL SALICYLATE CAS: 118-58-1 EC: 204-262-9	Koc	5600	Henry	Non-applicable
	Conclusion	Immobile	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
Allyl heptanoate CAS: 142-19-8 EC: 205-527-1	Koc	968.3	Henry	112 Pa·m ³ /mol
	Conclusion	Low	Dry soil	Non-applicable
	Surface tension	Non-applicable	Moist soil	Non-applicable
ETHYL ACETATE CAS: 141-78-6 EC: 205-500-4	Koc	59	Henry	13,58 Pa·m ³ /mol
	Conclusion	Very High	Dry soil	Yes
	Surface tension	2,324E-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 Other adverse effects:

Not described

SECTION 13: DISPOSAL CONSIDERATIONS

- CONTINUED ON NEXT PAGE -

RASPBERRY MORS - FR3840

SECTION 13: DISPOSAL CONSIDERATIONS (continued)

13.1 Waste treatment methods:

Code	Description	Waste class (Regulation (EU) No 1357/2014)
	It is not possible to assign a specific code, as it depends on the intended use by the user	Dangerous

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

HP14 Ecotoxic

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 recommend 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. (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: 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:



- 14.1 UN 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 Transport in bulk according to Annex II of Marpol and the IBC Code:** Non-applicable

Transport of dangerous goods by air:

- CONTINUED ON NEXT PAGE -

RASPBERRY MORS - FR3840

SECTION 14: TRANSPORT INFORMATION (continued)

With regard to IATA/ICAO 2020:



- 14.1 UN 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 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:

Regulation (EC) No 528/2012: contains a preservative to protect the initial properties of the treated article. Contains ethanol.
 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	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 (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

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RASPBERRY MORS - FR3840

SECTION 16: OTHER INFORMATION (continued)

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. 3: H301+H311 - Toxic if swallowed or in contact with skin
 Acute Tox. 4: H302 - Harmful if swallowed
 Aquatic Acute 1: H400 - Very toxic to aquatic life
 Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects
 Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects
 Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects
 Carc. 2: H351 - Suspected of causing cancer
 Eye Irrit. 2: H319 - Causes serious eye irritation
 Flam. Liq. 2: H225 - Highly flammable liquid and vapour
 Flam. Liq. 3: H226 - Flammable liquid and vapour
 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
 STOT SE 3: H336 - May cause drowsiness or dizziness

Classification procedure:

Aquatic Chronic 2: Calculation method
 Skin Sens. 1B: 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

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 -