

Mr&Mrs FRAGRANCE	MATERIAL SAFETY DATA SHEET		JEFF
	MAGIC VANILLA		
Current revision date: 04/07/2023	Current revision number: 00	Previous revision date: -/-/-	Previous revision number: - -

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

Commercial name : MAGIC VANILLA  
 UFI : V050-90WR-U00X-1P4N  
 European product categorisation system (EuPCS): PC-AIR-4 - Air care products for vehicles

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

Uses :	CONSUMER	PROFESSIONAL	INDUSTRIAL
	EVA air freshener for small rooms		

Uses advises against : All those not expressly identified on the label  
 Life cycle stages : C-Consumer use

### 1.3 Details of the supplier of the safety data sheet

Joy Fragrances s.r.l.  
 Via Gavinana, 14 - 21052 BUSTO ARSIZIO (VA) – Italy  
 tel. +39 0331 536942 - [www.mrandmrsfragrance.com](http://www.mrandmrsfragrance.com)  
 email competent person [info@joyfragrances.it](mailto:info@joyfragrances.it)

### 1.4 Emergency telephone number

Joy Fragrances s.r.l. - Tel +39 +39 0331 536942 – from 09,30 to 12,30 – from 15,30 to 19,30

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

#### 2.1.1 Classification in accordance with Regulation (EC) No 1272/2008:

The product is classified as dangerous pursuant to the provisions of Regulation (EC) 1272/2008 (CLP) (and subsequent amendments and adjustments), the product therefore requires a safety data sheet compliant with the provisions of Regulation (EU) 2020/878.

Hazard pictogram(s) : NONE  
 Hazard Class and Notes Category Code(s) : Aquatic Chronic 3  
 Hazard statement Code(s) : H412 - Harmful to aquatic life with long lasting effects

#### 2.1.2 Adverse Effects

The product is dangerous for the environment as it is harmful to aquatic life with long lasting effects.

### 2.2 Label elements

#### 2.2.1 Label in accordance with Regulation (EC) No 1272/2008

Hazard pictogram(s) : NONE



Signal Word Code(s) : NONE  
 Hazard statement Code(s) : H412 - Harmful to aquatic life with long lasting effects  
 Suppl. Hazard statement Code(s) : EUH208 – Contains: Limonene, Linalyl acetate, Linalool, Nerol, Dihydro Terpinyl acetate (multi), Nopyl acetate, Tetramethyl acetyloctahydronaphthalenes, Geraniol. May produce an allergic reaction.

#### Precautionary statements

##### General

P101 - If medical advice is needed, have product container or label at hand.  
 P102 - Keep out of reach of children.

##### Prevention

P273 - Avoid release to the environment.

##### Disposal

P501 - Dispose of contents/container in accordance with local/ national regulation.

**Other information:** It is not a toy. Do not swallow. Do not leave the product exposed in environments with temperatures above 70 ° C. Do not use the product for purposes other than those intended. Avoid contact with shiny or metallic surfaces.

#### 2.2.2 Additional regulations to be implemented on the label

Regulation (EC) 648/2004 : Not applicable  
 Regulation (EU) 528/2012 : Not applicable

### 2.3 Other hazards

The mixture does NOT contain PBT / vPvB substances according to Regulation (EC) 1907/2006, annex XIII in concentrations equal to or greater than 0.1% by weight. The mixture does NOT contain substances that have been included in the list established in accordance with Article 59, paragraph 1 due to properties of interference with the endocrine system in concentrations equal to or greater than 0.1% by weight.

The mixture does NOT contain a substance identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 in concentrations equal to or greater than 0.1% by weight.

Child-resistant packaging (ISO 8317\_ Child-resistant packaging - Requirements and testing procedures for reclosable packages) : **Not applicable**

Tactile warnings of danger (ISO 11683\_Packaging - Tactile warnings of danger - Requirements) : **Not applicable**

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Not relevant

### 3.2 Mixtures

Refer to point 16 for the full text of the hazard statements. If "INDEX NUMBER" is present, everything below in bold is related to the harmonized classification while what is not in bold refers to self-classification.

Index number	EC/List n°	CAS	REACH	International Chemical Identification	X= Conc. %
--	272-805-7	68912-13-0	01-2119969447-21	Dicyclopentadiene propionate	3,0 < x < 3,5
<b>Classification</b>					
<b>Hazard Class and Category Code(s), Hazard Statement Code(s)</b>			<b>Supplementary Hazard Statement Code(s)</b>	<b>Pictograms, Signal Word Code(s)</b>	<b>Specific Concentration limits, M-Factors, Acute Toxicity Estimates (ATE)</b>
Aquatic Chronic 2 H411			--	GHS09 ---	--
<b>Notes</b>					
--					

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Index number	EC/List n°.	CAS	REACH	Identificazione chimica internazionale	X= Conc. %	
---	260-252-4	56539-66-3	01-2119976333-33	3-methoxy-3-methylbutan-1-ol	1,5 < x < 2,0	
Hazard Class and Category Code(s), Hazard Statement Code(s)		Supplementary Hazard Statement Code(s)		Pictograms, Signal Word Code(s)	Specific Concentration limits, M-Factors, Acute Toxicity Estimates (ATE)	Notes
Eye Irrit. 2 H319		--		GHS07 - WARNING	--	--
Index number	EC/List n°.	CAS	REACH	Identificazione chimica internazionale	X= Conc. %	
---	204-464-7	121-32-4	01-2119958961-24	3-Ethoxy-4-hydroxybenzaldehyde / Ethyl vanillin	1,0 < x < 1,5	
Hazard Class and Category Code(s), Hazard Statement Code(s)		Supplementary Hazard Statement Code(s)		Pictograms, Signal Word Code(s)	Specific Concentration limits, M-Factors, Acute Toxicity Estimates (ATE)	Notes
Eye Irrit. 2 H319		--		GHS07 - WARNING	--	--
Index number	EC/List n°.	CAS	REACH	Identificazione chimica internazionale	X= Conc. %	
---	204-465-2	121-33-5	01-2119516040-60	Vanillin	1,0 < x < 1,5	
Hazard Class and Category Code(s), Hazard Statement Code(s)		Supplementary Hazard Statement Code(s)		Pictograms, Signal Word Code(s)	Specific Concentration limits, M-Factors, Acute Toxicity Estimates (ATE)	Notes
Eye Irrit. 2 H319		--		GHS07 - WARNING	--	--
Index number	EC/List n°.	CAS	REACH	Identificazione chimica internazionale	X= Conc. %	
601-029-00-7	227-813-5	5989-27-5	01-2119529223-47	d-limonene / (R)-p-mentha-1,8-diene	0,7 < x < 0,8	
Hazard Class and Category Code(s), Hazard Statement Code(s)		Supplementary Hazard Statement Code(s)		Pictograms, Signal Word Code(s)	Specific Concentration limits, M-Factors, Acute Toxicity Estimates (ATE)	Notes
Flam. Liq. 3 H226, Asp. Tox. 1 H304, Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Acute 1 H400, Aquatic Chronic 1 H410		--		GHS02, GHS07, GHS08, GHS09 - WARNING	M=1	C
Index number	EC/List n°.	CAS	REACH	Identificazione chimica internazionale	X= Conc. %	
---	204-116-4	115-95-7	01-2119454789-19	Linalyl acetate	0,7 < x < 0,8	
Hazard Class and Category Code(s), Hazard Statement Code(s)		Supplementary Hazard Statement Code(s)		Pictograms, Signal Word Code(s)	Specific Concentration limits, M-Factors, Acute Toxicity Estimates (ATE)	Notes
Skin Irrit. 2 H315, Skin Sens. 1B H317, Eye Irrit. 2 H319		--		GHS07 - WARNING	--	--
Index number	EC/List n°.	CAS	REACH	Identificazione chimica internazionale	X= Conc. %	
603-235-00-2	201-134-4	78-70-6	01-2119474016-42	Linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool	0,45 < x < 0,50	
Hazard Class and Category Code(s), Hazard Statement Code(s)		Supplementary Hazard Statement Code(s)		Pictograms, Signal Word Code(s)	Specific Concentration limits, M-Factors, Acute Toxicity Estimates (ATE)	Notes
Skin Irrit. 2 H315, Skin Sens. 1B H317, Eye Irrit. 2 H319		--		GHS07 - WARNING	--	--
Index number	EC/List n°.	CAS	REACH	Identificazione chimica internazionale	X= Conc. %	
603-212-00-7	214-946-9	1222-05-5	01-2119488227-29	Hexamethylindanopyran	0,45 < x < 0,50	
Hazard Class and Category Code(s), Hazard Statement Code(s)		Supplementary Hazard Statement Code(s)		Pictograms, Signal Word Code(s)	Specific Concentration limits, M-Factors, Acute Toxicity Estimates (ATE)	Notes
Aquatic Acute 1, H400 - Aquatic Chronic 1, H410		--		GHS09 - WARNING	M=1	--
Index number	EC/List n°.	CAS	REACH	Identificazione chimica internazionale	X= Conc. %	
---	203-378-7	106-25-2	01-2119983244-33	Nerol	0,25 < x < 0,30	
Hazard Class and Category Code(s), Hazard Statement Code(s)		Supplementary Hazard Statement Code(s)		Pictograms, Signal Word Code(s)	Specific Concentration limits, M-Factors, Acute Toxicity Estimates (ATE)	Notes
Eye Dam. 1 H318, Skin Irrit. 2 H315, Skin Sens. 1B H317		--		GHS07 - WARNING	--	--
Index number	EC/List n°.	CAS	REACH	Identificazione chimica internazionale	X= Conc. %	
---	939-728-7	--	01-2119983293-30	Dihydro Terpinyl acetate	0,25 < x < 0,30	
Hazard Class and Category Code(s), Hazard Statement Code(s)		Supplementary Hazard Statement Code(s)		Pictograms, Signal Word Code(s)	Specific Concentration limits, M-Factors, Acute Toxicity Estimates (ATE)	Notes
Skin Sens. 1B H317, Eye Irrit. 2 H319, Aquatic Chronic 2 H411		--		GHS07, GHS09 - WARNING	--	--
Index number	EC/List n°.	CAS	REACH	Identificazione chimica internazionale	X= Conc. %	
---	204-891-9	128-51-8	--	Nopyl acetate	0,25 < x < 0,30	
Hazard Class and Category Code(s), Hazard Statement Code(s)		Supplementary Hazard Statement Code(s)		Pictograms, Signal Word Code(s)	Specific Concentration limits, M-Factors, Acute Toxicity Estimates (ATE)	Notes
Eye Irrit. 2 H319, Skin Sens. 1 H317, Aquatic Chronic 2 H411		--		GHS07, GHS09 - WARNING	--	--
Index number	EC/List n°.	CAS	REACH	Identificazione chimica internazionale	X= Conc. %	
---	915-730-3	54464-57-2	01-2119489989-04	Tetramethyl acetyloctahydronaphthalenes	0,25 < x < 0,30	
Hazard Class and Category Code(s), Hazard Statement Code(s)		Supplementary Hazard Statement Code(s)		Pictograms, Signal Word Code(s)	Specific Concentration limits, M-Factors, Acute Toxicity Estimates (ATE)	Notes
Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 2 H411		--		GHS07, GHS09 - WARNING	--	--
Index number	EC/List n°.	CAS	REACH	Identificazione chimica internazionale	X= Conc. %	
603-241-00-5	203-377-1	106-24-1	01-2119552430-49	Geraniol / (2E)-3,7-dimethylocta-2,6-dien-1-ol	0,10 < x < 0,15	
Hazard Class and Category Code(s), Hazard Statement Code(s)		Supplementary Hazard Statement Code(s)		Pictograms, Signal Word Code(s)	Specific Concentration limits, M-Factors, Acute Toxicity Estimates (ATE)	Notes
Skin Irrit. 2 H315, Skin Sens. 1B H317, Eye Dam. 1 H318		--		GHS05, GHS07 - DANGER	--	--
Index number	EC/List n°.	CAS	REACH	Identificazione chimica internazionale	X= Conc. %	
---	279-815-0	81782-77-6	01-2119983528-21	4-methyl-3-decen-5-ol	0,10 < x < 0,15	
Hazard Class and Category Code(s), Hazard Statement Code(s)		Supplementary Hazard Statement Code(s)		Pictograms, Signal Word Code(s)	Specific Concentration limits, M-Factors, Acute Toxicity Estimates (ATE)	Notes
Aquatic Acute 1 H400 M=1, Aquatic Chronic 2 H411		--		GHS09 - DANGER	--	--
Index number	EC/List n°.	CAS	REACH	Identificazione chimica internazionale	X= Conc. %	
---	268-979-9	68155-67-9	--	1-(1,2,3,4,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl) ethan-1-one (INCI: Tetramethyl Acetyloctahydronaphthalenes)	0,10 < x < 0,15	
Hazard Class and Category Code(s), Hazard Statement Code(s)		Supplementary Hazard Statement Code(s)		Pictograms, Signal Word Code(s)	Specific Concentration limits, M-Factors, Acute Toxicity Estimates (ATE)	Notes
Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 1 H410		--		GHS07, GHS09 - WARNING	M=1	--
Index number	EC/List n°.	CAS	REACH	Identificazione chimica internazionale	X= Conc. %	
---	268-978-3	68155-66-8	--	1-(1,2,3,5,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl) ethan-1-one (INCI: Tetramethyl Acetyloctahydronaphthalenes)	0,10 < x < 0,15	
Hazard Class and Category Code(s), Hazard Statement Code(s)		Supplementary Hazard Statement Code(s)		Pictograms, Signal Word Code(s)	Specific Concentration limits, M-Factors, Acute Toxicity Estimates (ATE)	Notes
Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 1 H410		--		GHS07, GHS09 - WARNING	M=1	--

## SECTION 4: First aid measures

## 4.1 Description of first aid measures

First aid instructions divided according to the relevant routes of exposure. It is advisable for those who provide first aid to wear the personal protective equipment deemed appropriate.

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**Inhalation**

Given the specificity of the product and the reduced quantities of substances released, no conditions are expected to require first aid measures.

**Skin**

Wash areas of the body that have come into contact with the product, even if only suspected, with plenty of water and soap.

**Eyes**

Given the particular structure of the product, accidental contacts are unpredictable and of predominantly traumatic and / or voluntary origin. In the eventuality, apply fresh compresses and, if the painful phenomena persist, contact the medical staff.

**Ingestion**

SEEK MEDICAL ATTENTION IMMEDIATELY.

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

Data not available

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

See section 4.1 Description of first aid measures.

**SECTION 5: Firefighting measures****5.1 Extinguishing media**

**Suitable extinguishing media** : Water spray, CO<sub>2</sub>, alcohol resistant foam, chemical powders depending on the materials involved in the fire.

**Unsuitable extinguishing media** : None in particular

**5.2 Special hazards arising from the substance or mixture**

During combustion, fumes potentially harmful to health may be produced. If exposed to the flame it catches fire and continues to burn with a dim flame even if removed from the heat source.

**5.3 Advice for firefighters**

Use protective clothing for the respiratory tract, eyes and skin. The sprayed water can be used to disperse the vapors and protect the people involved in the extinction. It is also advisable to use self-contained breathing apparatus, especially if you work in closed and poorly ventilated places. Wear the specific protective equipment of the firefighting team. Given the polymeric characteristic of the material, the possible presence of significant quantities of product in the environments involved in the fire, can be a source of risk in causing the reignition of the fire in the presence of oxygen since the internal layers can conserve heat. It is therefore necessary, in the event of a fire in environments where large quantities of product have been involved, to proceed to dissipate the heat retained inside.

**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

**For non-emergency personnel** : Move away from the area surrounding the spill or release. Not smoking.

**For emergency responders** : General information: Do not smoke. Use suitable personal protective equipment, see Section 8.

**6.2 Environmental precautions**

Contain leaks with inert material. Avoid dispersion and / or washout in the sewer system and surface waters. Dispose of the residue according to the regulations in force.

**6.3 Methods and material for containment and cleaning up**

Collect the product for possible reuse or disposal.

**6.4 Reference to other sections**

Refer to sections 8 and 13 for more information

**SECTION 7: Handling and storage****7.1 Precautions for safe handling**

Normal handling precautions for sensitizing chemicals, protecting yourself from any accidental contact. Do not smoke, eat, drink while handling.

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

How to manage risks associated with:

i) explosive atmospheres	Nothing to report
ii) corrosive conditions	Nothing to report
iii) flammability hazards	Nothing to report
iv) incompatible substances or mixtures	Avoid contact with solvents which could damage the product.
v) evaporative conditions	Keep in the original packaging, in well-ventilated areas at room temperature.
vi) potential ignition sources (including electrical equipment)	Keep away from open flames, sparks and sources of ignition in general. Appropriate maintenance of all electrical components of machines, systems and electrical installations in general can give a sufficient guarantee of reducing the fire risk.

How to control the effects of:

i) weather conditions	Store inside in a dry environment.
ii) ambient pressure	Nothing to report
iii) Temperature	Store at room temperature
iv) sunlight	Do not store in direct sunlight.
v) humidity	Store away from moisture.
vi) Vibration	Nothing to report.

How to maintain the integrity of the substance or mixture by the use of:

i) stabilisers	Not relevant
ii) antioxidants	Not relevant

Other advice including

i) ventilation requirements	Store in a cool and ventilated place.
ii) specific designs for storage rooms or vessels (including retention walls and ventilation)	Nothing to report
iii) quantity limits under storage conditions (if relevant)	Observe the provisions resulting from the risk assessment carried out by a qualified specialist.
iv) packaging compatibilities	Keep in original packaging.

**7.3 Specific end use(s)**

Consumer uses: Follow the instructions on the label / box / information sheets.

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## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Related to the substances contained

<b>Substance:</b>	Dicyclopentadiene propionate					
<b>CAS:</b>	68912-13-0					
<b>GESTIS International Limit Values</b>						
		Limit value - Eight hours			Limit value - Short term	
		ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	
		--	--	--	--	
Remarks						
--						
Reference: <a href="https://echa.europa.eu/it/registration-dossier/-/registered-dossier/13493">https://echa.europa.eu/it/registration-dossier/-/registered-dossier/13493</a>						
<b>DNEL (Workers)</b>				<b>DNEL (Population)</b>		
Systemic		Local		Systemic		Local
Long term	Short term	Long term	Short term	Long term	Short term	Long term
Inhalation	No hazard identified	No hazard identified	No hazard identified	Inhalation	No hazard identified	No hazard identified
Dermal	No hazard identified	No hazard identified	No hazard identified	Dermal	No hazard identified	No hazard identified
Oral	Not available	Not available	Not available	Oral	No hazard identified	Not available
Eyes	Not available	No hazard identified	No hazard identified	Eyes	Not available	No hazard identified
<b>PNEC</b>						
Freshwater	91 µg/L	Intermittent	Not available	Marine water	9.1 µg/L	
STP	4.8 mg/L	Sediment (freshwater)	12.2 mg/kg sediment dw	Sediment (marine water)	1.22 mg/kg sediment dw	
Air	No hazard identified	Soil	4.4 mg/kg soil dw	Hazard for predators	No potential for bioaccumulation	

<b>Substance:</b>	3-methoxy-3-methylbutan-1-ol					
<b>CAS:</b>	56539-66-3					
<b>GESTIS International Limit Values</b>						
		Limit value - Eight hours			Limit value - Short term	
		ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	
		--	--	--	--	
Remarks						
--						
Link DNEL value	<a href="https://echa.europa.eu/it/registration-dossier/-/registered-dossier/10042">https://echa.europa.eu/it/registration-dossier/-/registered-dossier/10042</a>					
<b>DNEL (Workers)</b>				<b>DNEL (Population)</b>		
Systemic		Local		Systemic		Local
Long term	Short term	Long term	Short term	Long term	Short term	Long term
Inhalation	18 mg/m <sup>3</sup>	No hazard identified	No hazard identified	Inhalation	4.4 mg/m <sup>3</sup>	No hazard identified
Dermal	6.25 mg/kg bw/day	No hazard identified	No hazard identified	Dermal	3.1 mg/kg bw/day	No hazard identified
Oral	Not available	Not available	Not available	Oral	2.5 mg/kg bw/day	Not available
Eyes	Not available	Low hazard (no threshold derived)	Low hazard (no threshold derived)	Eyes	Not available	Low hazard (no threshold derived)
<b>PNEC</b>						
Freshwater	No hazard identified	Intermittent	No hazard identified	Marine water	No hazard identified	
STP	No hazard identified	Sediment (freshwater)	No hazard identified	Sediment (marine water)	No hazard identified	
Air	No hazard identified	Soil	No hazard identified	Hazard for predators	No potential for bioaccumulation	

<b>Substance:</b>	3-Ethoxy-4-hydroxybenzaldehyde / Ethyl vanillin					
<b>CAS:</b>	121-32-4					
<b>GESTIS International Limit Values</b>						
		Limit value - Eight hours			Limit value - Short term	
		ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	
		--	--	--	--	
Remarks						
--						
Link DNEL value	<a href="https://echa.europa.eu/it/registration-dossier/-/registered-dossier/13700">https://echa.europa.eu/it/registration-dossier/-/registered-dossier/13700</a>					
<b>DNEL (Workers)</b>				<b>DNEL (Population)</b>		
Systemic		Local		Systemic		Local
Long term	Short term	Long term	Short term	Long term	Short term	Long term
Inhalation	49 mg/m <sup>3</sup>	98 mg/m <sup>3</sup>	Low hazard (no threshold derived)	Inhalation	8.75 mg/m <sup>3</sup>	17.5 mg/m <sup>3</sup>
Dermal	7 mg/kg bw/day	No hazard identified	No hazard identified	Dermal	2.5 mg/kg bw/day	No hazard identified
Oral	Not available	Not available	Not available	Oral	2.5 mg/kg bw/day	Not available
Eyes	Not available	Low hazard (no threshold derived)	Low hazard (no threshold derived)	Eyes	Not available	Low hazard (no threshold derived)
<b>PNEC</b>						
Freshwater	0.118 mg/L	Intermittent	Not available	Marine water	0.012 mg/L	
STP	10 mg/L	Sediment (freshwater)	15 mg/kg sediment dw	Sediment (marine water)	1.5 mg/kg sediment dw	
Air	No hazard identified	Soil	2.923 mg/kg soil dw	Hazard for predators	No potential for bioaccumulation	

<b>Substance:</b>	Vanillin					
<b>CAS:</b>	121-33-5					
<b>GESTIS International Limit Values</b>						
		Limit value - Eight hours			Limit value - Short term	
		ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	
		--	--	--	--	
Remarks						
--						
Link DNEL value	<a href="https://echa.europa.eu/it/registration-dossier/-/registered-dossier/2209">https://echa.europa.eu/it/registration-dossier/-/registered-dossier/2209</a>					
<b>DNEL (Workers)</b>				<b>DNEL (Population)</b>		
Systemic		Local		Systemic		Local
Long term	Short term	Long term	Short term	Long term	Short term	Long term
Inhalation	Hazard unknown (no further information necessary)	Low hazard (no threshold derived)	Low hazard (no threshold derived)	Inhalation	Hazard unknown (no further information necessary)	Low hazard (no threshold derived)

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Dermal	Hazard unknown (no further information necessary)	No hazard identified	No hazard identified	Dermal	Hazard unknown (no further information necessary)	No hazard identified	No hazard identified
Oral	Not available	Not available	Not available	Oral	No hazard identified	Not available	Not available
Eyes	Not available	Low hazard (no threshold derived)	Low hazard (no threshold derived)	Eyes	Not available	Low hazard (no threshold derived)	Low hazard (no threshold derived)
PNEC		Freshwater		Intermittent		Marine water	
		0.118 mg/L		Not available		0.012 mg/L	
STP		10 mg/L		Sediment (freshwater)		Sediment (marine water)	
Air		No hazard identified		Soil		Hazard for predators	
				58.22 mg/kg sediment dw		5.822 mg/kg sediment dw	
				11.54 mg/kg soil dw		No potential for bioaccumulation	
<b>Substance:</b>		d-limonene / (R)-p-mentha-1,8-diene					
<b>CAS:</b>		5989-27-5					
<b>GESTIS International Limit Values</b>							
		Limit value - Eight hours			Limit value - Short term		
		ppm		mg/m <sup>3</sup>		ppm	
		mg/m <sup>3</sup>		ppm		mg/m <sup>3</sup>	
Finland		25		140		50 (1)	
Germany (AGS)		5 (1)		28 (1)		20 (1)(2)	
Germany (DFG)		5 (1)		28 (1)		20 (1)(2)	
Norway		25		140		--	
Spain		30 (1)		168 (1)		--	
Switzerland		7		40		14 (1)	
		Remarks					
Finland		(1) 15 minutes average value					
Germany (AGS)		(1) Skin (2) 15 minutes average value					
Germany (DFG)		(1) Skin (2) 15 minutes average value					
Spain		(1) Skin					
Switzerland		(1) 15 minutes average value					
<a href="https://echa.europa.eu/it/registration-dossier/-/registered-dossier/15256">https://echa.europa.eu/it/registration-dossier/-/registered-dossier/15256</a>							
<b>DNEL (Workers)</b>				<b>DNEL (Population)</b>			
Systemic		Local		Systemic		Local	
Long term		Short term		Long term		Short term	
Long term		Short term		Long term		Short term	
Inhalation		No hazard identified		No hazard identified		No hazard identified	
Dermal		No hazard identified		Medium hazard (no threshold derived)		No hazard identified	
Oral		Not available		Not available		No hazard identified	
Eyes		Not available		No hazard identified		Not available	
PNEC		Freshwater		Intermittent		Marine water	
		14 µg/L		Not available		1.4 µg/L	
STP		1.8 mg/L		Sediment (freshwater)		Sediment (marine water)	
Air		No hazard identified		Soil		Hazard for predators	
				0.763 mg/kg soil dw		0.385 mg/kg sediment dw	
						133 mg/kg food	
<b>Substance:</b>		Linalyl acetate					
<b>CAS:</b>		115-95-7					
<b>GESTIS International Limit Values</b>							
		Limit value - Eight hours			Limit value - Short term		
		ppm		mg/m <sup>3</sup>		ppm	
		mg/m <sup>3</sup>		ppm		mg/m <sup>3</sup>	
		--		--		--	
		Remarks					
		--					
<a href="https://echa.europa.eu/it/registration-dossier/-/registered-dossier/14484">https://echa.europa.eu/it/registration-dossier/-/registered-dossier/14484</a>							
<b>DNEL (Workers)</b>				<b>DNEL (Population)</b>			
Systemic		Local		Systemic		Local	
Long term		Short term		Long term		Short term	
Long term		Short term		Long term		Short term	
Inhalation		No hazard identified		No hazard identified		No hazard identified	
Dermal		No hazard identified		236.2 µg/cm <sup>2</sup>		No hazard identified	
Oral		Not available		Not available		Not available	
Eyes		Not available		Low hazard (no threshold derived)		Not available	
PNEC		Freshwater		Intermittent		Marine water	
		0.011 mg/L		0.11 mg/L		0.001 mg/L	
STP		10 mg/L		Sediment (freshwater)		Sediment (marine water)	
Air		No hazard identified		Soil		Hazard for predators	
				0.115 mg/kg soil dw		0.061 mg/kg sediment dw	
						No potential for bioaccumulation	
<b>Substance:</b>		Linalool					
<b>CAS:</b>		78-70-6					
<b>GESTIS International Limit Values</b>							
		Limit value - Eight hours			Limit value - Short term		
		ppm		mg/m <sup>3</sup>		ppm	
		mg/m <sup>3</sup>		ppm		mg/m <sup>3</sup>	
		--		--		--	
		Remarks					
		--					
<a href="https://echa.europa.eu/it/registration-dossier/-/registered-dossier/14501">https://echa.europa.eu/it/registration-dossier/-/registered-dossier/14501</a>							
<b>DNEL (Workers)</b>				<b>DNEL (Population)</b>			
Systemic		Local		Systemic		Local	
Long term		Short term		Long term		Short term	
Long term		Short term		Long term		Short term	
Inhalation		No hazard identified		Low hazard (no threshold derived)		Low hazard (no threshold derived)	
Dermal		No hazard identified		3 mg/cm <sup>2</sup>		No hazard identified	
Oral		Not available		Not available		Not available	
Eyes		Not available		Low hazard (no threshold derived)		Not available	
PNEC		Freshwater		Intermittent		Marine water	
		0.2 mg/L		2 mg/L		0.02 mg/L	
STP		10 mg/L		Sediment (freshwater)		Sediment (marine water)	
Air		Not available		Soil		Hazard for predators	
				0.327 mg/kg soil dw		0.222 mg/kg sediment dw	
						7.8 mg/kg food	

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<b>Substance:</b>	Hexamethylindanopyran										
<b>CAS:</b>	1222-05-5										
<b>GESTIS International Limit Values</b>											
Limit value - Eight hours					Limit value - Short term						
ppm		mg/m <sup>3</sup>			ppm		mg/m <sup>3</sup>				
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Remarks --											
<a href="https://echa.europa.eu/it/registration-dossier/-/registered-dossier/14504">https://echa.europa.eu/it/registration-dossier/-/registered-dossier/14504</a>											
<b>DNEL (Workers)</b>					<b>DNEL (Population)</b>						
Systemic		Local			Systemic		Local				
Long term		Short term	Long term		Short term	Long term		Short term	Long term		Short term
Inhalation	13.5 mg/L	No hazard identified	No hazard identified		No hazard identified	Inhalation	4 mg/L	No hazard identified	No hazard identified		
Dermal	36.7 mg/kg bw/day	No hazard identified	No hazard identified		No hazard identified	Dermal	22 mg/kg bw/day	No hazard identified	No hazard identified		
Oral	Not available	No hazard identified	Not available		Not available	Oral	2.3 mg/kg bw/day	No hazard identified	Not available		
Eyes	Not available	No hazard identified	No hazard identified		No hazard identified	Eyes	Not available	No hazard identified	No hazard identified		
<b>PNEC</b>											
Freshwater		6.8 µg/L	Intermittent		Not available	Marine water		0.44 µg/L			
STP		1 mg/L	Sediment (freshwater)		2 mg/kg/sediment	Sediment (marine water)		0.394 mg/kg/sediment			
Air		No hazard identified	Soil		1.5 mg/kg soil	Hazard for predators		20.4 g/kg food			
<b>Substance:</b>	Nerol										
<b>CAS:</b>	106-25-2										
<b>GESTIS International Limit Values</b>											
Limit value - Eight hours					Limit value - Short term						
ppm		mg/m <sup>3</sup>			ppm		mg/m <sup>3</sup>				
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Remarks --											
<b>Link DNEL value</b>	<a href="https://echa.europa.eu/it/registration-dossier/-/registered-dossier/10345">https://echa.europa.eu/it/registration-dossier/-/registered-dossier/10345</a>										
<b>DNEL (Workers)</b>					<b>DNEL (Population)</b>						
Systemic		Local			Systemic		Local				
Long term		Short term	Long term		Short term	Long term		Short term	Long term		Short term
Inhalation	4.4 mg/m <sup>3</sup>	No hazard identified	No hazard identified		No hazard identified	Inhalation	1.09 mg/m <sup>3</sup>	No hazard identified	No hazard identified		
Dermal	1.25 mg/kg bw/day	No hazard identified	Medium hazard (no threshold derived)		Medium hazard (no threshold derived)	Dermal	0.62 mg/kg bw/day	No hazard identified	No hazard identified		
Oral	Not available	No hazard identified	Not available		Not available	Oral	0.62 mg/kg bw/day	No hazard identified	Not available		
Eyes	Not available	No hazard identified	Low hazard (no threshold derived)		Low hazard (no threshold derived)	Eyes	Not available	No hazard identified	Low hazard (no threshold derived)		
<b>PNEC</b>											
Freshwater		7.45 µg/L	Intermittent		74.5 µg/L	Marine water		0.745 µg/L			
STP		12.9 mg/L	Sediment (freshwater)		133 µg/kg sediment dw	Sediment (marine water)		13.3 µg/kg sediment dw			
Air		No hazard identified	Soil		22.3 µg/kg soil dw	Hazard for predators		No potential for bioaccumulation			
<b>Substance:</b>	Dihydro Terpinyl acetate										
<b>CAS:</b>	-- EC: 939-728-7										
<b>GESTIS International Limit Values</b>											
Limit value - Eight hours					Limit value - Short term						
ppm		mg/m <sup>3</sup>			ppm		mg/m <sup>3</sup>				
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Remarks --											
<a href="https://echa.europa.eu/it/registration-dossier/-/registered-dossier/10720">https://echa.europa.eu/it/registration-dossier/-/registered-dossier/10720</a>											
<b>DNEL (Workers)</b>					<b>DNEL (Population)</b>						
Systemic		Local			Systemic		Local				
Long term		Short term	Long term		Short term	Long term		Short term	Long term		Short term
Inhalation	3.51 mg/m <sup>3</sup>	No hazard identified	Hazard unknown (no further information necessary)		Hazard unknown (no further information necessary)	Inhalation	0.85 mg/m <sup>3</sup>	No hazard identified	No hazard identified		
Dermal	1 mg/kg bw/day	No hazard identified	233.3 µg/cm <sup>2</sup>		No hazard identified	Dermal	0.5 mg/kg bw/day	No hazard identified	No hazard identified		
Oral	Not available	No hazard identified	Not available		Not available	Oral	0.5 mg/kg bw/day	No hazard identified	Not available		
Eyes	Not available	No hazard identified	Low hazard (no threshold derived)		Low hazard (no threshold derived)	Eyes	Not available	No hazard identified	Low hazard (no threshold derived)		
<b>PNEC</b>											
Freshwater		2.27 µg/L	Intermittent		22.7 µg/L	Marine water		0.2227 µg/L			
STP		1.7 mg/L	Sediment (freshwater)		0.254 mg/kg sediment dw	Sediment (marine water)		25.4 µg/kg sediment dw			
Air		No hazard identified	Soil		49.4 µg/kg soil dw	Hazard for predators		19.92 mg/kg food			
<b>Substance:</b>	Tetramethyl acetyloctahydronaphthalenes										
<b>CAS:</b>	54464-57-2										
<b>GESTIS International Limit Values</b>											
Limit value - Eight hours					Limit value - Short term						
ppm		mg/m <sup>3</sup>			ppm		mg/m <sup>3</sup>				
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Remarks --											
<a href="https://echa.europa.eu/it/registration-dossier/-/registered-dossier/15069">https://echa.europa.eu/it/registration-dossier/-/registered-dossier/15069</a>											
<b>DNEL (Workers)</b>					<b>DNEL (Population)</b>						
Systemic		Local			Systemic		Local				
Long term		Short term	Long term		Short term	Long term		Short term	Long term		Short term
Inhalation	30 mg/m <sup>3</sup>	no hazard identified	no hazard identified		no hazard identified	Inhalation	9 mg/m <sup>3</sup>	no hazard identified	no hazard identified		
Dermal	28.7 mg/kg bw/day	no hazard identified	648 µg/cm <sup>2</sup>		low hazard (no threshold derived)	Dermal	17.2 mg/kg bw/day	no hazard identified	380 µg/cm <sup>2</sup>		

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Oral	Not available	Not available		Oral	3 mg/kg bw/day	no hazard identified	
Eyes	Not available	no hazard identified		Eyes	Not available		no hazard identified
<b>PNEC</b>							
Freshwater		4.4 µg/L	Intermittent		Not available	Marine water	
STP		10 mg/L	Sediment (freshwater)		3.73 mg/kg sediment dw	Sediment (marine water)	
Air		no hazard identified	Soil		2.7 mg/kg soil dw	Hazard for predators	
Marine water		0.44 µg/L	Sediment (marine water)		0.75 mg/kg sediment dw	26.7 mg/kg food	
<b>Substance:</b> Geraniol							
<b>CAS:</b> 106-24-1							
<b>GESTIS International Limit Values</b>							
Limit value - Eight hours				Limit value - Short term			
ppm		mg/m <sup>3</sup>		ppm		mg/m <sup>3</sup>	
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Remarks							
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Link ECHA: <a href="https://echa.europa.eu/it/registration-dossier/-/registered-dossier/14184">https://echa.europa.eu/it/registration-dossier/-/registered-dossier/14184</a>							
<b>DNEL (Workers)</b>				<b>DNEL (Population)</b>			
Systemic		Local		Systemic		Local	
Long term		Short term		Long term		Short term	
Inhalation	11.83 mg/m <sup>3</sup>	No hazard identified		No hazard identified		No hazard identified	
Dermal	4.2 mg/kg bw/day	No hazard identified		11 800 µg/cm <sup>2</sup>		Medium hazard (no threshold derived)	
Oral	Not available		Not available		Oral	2.5 mg/kg bw/day	No hazard identified
Eyes	Not available		Medium hazard (no threshold derived)		Eyes	Not available	
<b>PNEC</b>							
Freshwater		0.011 mg/L	Intermittent		0.108 mg/L	Marine water	
STP		0.7 mg/L	Sediment (freshwater)		0.115 mg/kg sediment dw	Sediment (marine water)	
Air		No hazard identified	Soil		0.017 mg/kg soil dw	Hazard for predators	
Marine water		0.001 mg/L	Sediment (marine water)		0.011 mg/kg sediment dw	No potential to cause toxic effects if accumulated (in higher organisms) via the food chain	
<b>Substance:</b> 4-methyl-3-decen-5-ol							
<b>CAS:</b> 81782-77-6							
<b>GESTIS International Limit Values</b>							
Limit value - Eight hours				Limit value - Short term			
ppm		mg/m <sup>3</sup>		ppm		mg/m <sup>3</sup>	
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Remarks							
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Link DNEL value: <a href="https://echa.europa.eu/it/registration-dossier/-/registered-dossier/12744">https://echa.europa.eu/it/registration-dossier/-/registered-dossier/12744</a>							
<b>DNEL (Workers)</b>				<b>DNEL (Population)</b>			
Systemic		Local		Systemic		Local	
Long term		Short term		Long term		Short term	
Inhalation	98.7 mg/m <sup>3</sup>	35.26 mg/m <sup>3</sup>		88.16 mg/m <sup>3</sup>		21.74 mg/m <sup>3</sup>	
Dermal	10 mg/kg bw/day	25 mg/cm <sup>2</sup>		89.3 µg/kg bw/day		5 mg/kg bw/day	
Oral	Not available		Not available		Oral	10 mg/kg bw/day	5 mg/kg bw/day
Eyes	Not available		No hazard identified		Eyes	Not available	
<b>PNEC</b>							
Freshwater		0.76 µg/L	Intermittent		4 µg/L	Marine water	
STP		10 mg/L	Sediment (freshwater)		92 µg/kg sediment dw	Sediment (marine water)	
Air		No hazard identified	Soil		18 µg/kg soil dw	Hazard for predators	
Marine water		76 ng/L	Sediment (marine water)		9.2 µg/kg sediment dw	111.1 mg/kg food	
<b>Substance:</b> 1-(1,2,3,4,6,7,8,8a-octahydro-2,3,8-tetramethyl-2-naphthyl) ethan-1-one (INCI: Tetramethyl Acetyloctahydronaphthalenes)							
<b>CAS:</b> 68155-67-9							
<b>GESTIS International Limit Values</b>							
Limit value - Eight hours				Limit value - Short term			
ppm		mg/m <sup>3</sup>		ppm		mg/m <sup>3</sup>	
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Remarks							
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https: - -							
<b>DNEL (Workers)</b>				<b>DNEL (Population)</b>			
Systemic		Local		Systemic		Local	
Long term		Short term		Long term		Short term	
Inhalation	30 mg/m <sup>3</sup>	No hazard identified		No hazard identified		No hazard identified	
Dermal	28.7 mg/kg bw/day	No hazard identified		648 µg/cm <sup>2</sup>		Low hazard (no threshold derived)	
Oral	Not available		Not available		Oral	3 mg/kg bw/day	No hazard identified
Eyes	Not available		No hazard identified		Eyes	Not available	
<b>PNEC</b>							
Freshwater		4.4 µg/L	Intermittent		Not available	Marine water	
STP		10 mg/L	Sediment (freshwater)		3.73 mg/kg sediment dw	Sediment (marine water)	
Air		No hazard identified	Soil		2.7 mg/kg soil dw	Hazard for predators	
Marine water		0.44 µg/L	Sediment (marine water)		0.75 mg/kg sediment dw	26.7 mg/kg food	
<b>Substance:</b> 1-(1,2,3,5,6,7,8,8a-octahydro-2,3,8-tetramethyl-2-naphthyl) ethan-1-one (INCI: Tetramethyl Acetyloctahydronaphthalenes)							
<b>CAS:</b> 68155-66-8							
<b>GESTIS International Limit Values</b>							
Limit value - Eight hours				Limit value - Short term			
ppm		mg/m <sup>3</sup>		ppm		mg/m <sup>3</sup>	
--		--		--		--	
Remarks							
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https: - -							

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DNEL (Workers)		DNEL (Population)							
Systemic		Local		Systemic		Local			
Long term		Short term		Long term		Short term			
Inhalation	30 mg/m <sup>3</sup>	No hazard identified	No hazard identified		Inhalation	9 mg/m <sup>3</sup>	No hazard identified	No hazard identified	
Dermal	28.7 mg/kg bw/day	No hazard identified	648 µg/cm <sup>2</sup>	Low hazard (no threshold derived)	Dermal	17.2 mg/kg bw/day	No hazard identified	380 µg/cm <sup>2</sup>	Low hazard (no threshold derived)
Oral	Not available		Not available		Oral	3 mg/kg bw/day	No hazard identified	Not available	
Eyes	Not available		No hazard identified		Eyes	Not available		No hazard identified	
PNEC		Freshwater		Intermittent	Not available		Marine water		0.44 µg/L
		STP	10 mg/L	Sediment (freshwater)	3.73 mg/kg sediment dw		Sediment (marine water)		0.75 mg/kg sediment dw
		Air	No hazard identified	Soil	2.7 mg/kg soil dw		Hazard for predators		26.7 mg/kg food

## 8.2 Exposure controls

### 8.2.1 Appropriate engineering controls

If, following the risk assessment and the adoption of preventive technical and / or organizational collective protection measures, it appears that there is still a residual risk for the worker, it is necessary to equip the worker with the Personal Protective Equipment.


The use of this mixture does not imply the application of Directive 2004/37 / EC on the protection of workers against the risks deriving from exposure to carcinogens or mutagens at work.

**Descriptor for Process** PROC19 - Manual activities involving hand contact categories:

### 8.2.2 Individual protection measures, such as personal protective equipment

The information below must be considered only as an aid to the Head of the Prevention and Protection Service as in addition to this mixture he will have to implement the choices on PPE also in consideration of the other chemical products present in the company used in each specific working phase.

#### a) EYE/FACE PROTECTION


PITTOGRAM	PPE	METHOD OF CHOOSING THE PPE				
		PROTECTION				
 Eye and face protection devices	PPE for the eyes are second category and must be provided with indelible CE marking and the number of the Notified Body that issued the certification. Their use is foreseen in all places where there is a risk of projections of solid bodies, liquids or optical radiation. For eyeglass wearers, it is possible to use over glasses if the duration of use is limited or to mount graduated lenses on safety frames. Operators wearing contact lenses must make their condition known in order to make it easier, if necessary, to remove them by first aid workers in case of need in an emergency. Standard EN166 Personal eye protection - Specifications	RISK CHARACTERISTICS	Eyeglasses	Glasses with side shields	Mask glasses	Face shield
		Frontal sketches	Good	Good	Excellent	Excellent
		Side sketches	Scarso	Good	Excellent	Good / Excellent
		Frontal splinters	Excellent	Good	Excellent	Excellent if of adequate thickness
		Side impacts	Scant	Fairly good	Excellent	It depends on the length
		Neck and face protection	Scant	Scant	Scant	Fairly good
		Wearability	Good / Very good	Good	Fairly good	Good (for short periods)
		Continuous use	Very good	Very good	Fairly good	Fairly good
		Acceptability for use	Very good	Good	Scant	Fairly good

The Head of the Prevention and Protection Service will assess the need to provide eyewash devices near the areas where the mixture is used.

#### IN NORMAL USE, NO PERSONAL PROTECTION DEVICES ARE PROVIDED

#### b) SKIN PROTECTION


##### i) Hand protection

PITTOGRAM	PPE	METHOD OF CHOOSING THE PPE			
		CHEMICAL PROTECTION			
 Gloves	The choice of gloves depends on the worker's job, the characteristics of the glove and its biocompatibility. The "grip" must always be guaranteed. The general requirements for choosing the most suitable PPE are: harmlessness, ergonomics / comfort, dexterity, transmission and absorption of water vapor and cleaning. Regarding these requirements, the reference technical standard is UNI EN 420 - Protective gloves. General requirements and test methods. Gloves that protect against chemicals are regulated by EN374 - Protective gloves against chemicals and microorganisms. The basic requirements for this type of gloves are: penetration and permeation. Chemical protective gloves are divided into three categories: Type A, B and C; the belonging to which depends on the number of chemicals tested, from a list of 18 substances that have reached a defined permeation time. Gloves must be checked before use. The choice of gloves based on resistance must be made following the UNI EN 16523 standard - Determination of the resistance of materials to the permeation of chemical products. Use proper technique to remove gloves avoiding skin contact with the contaminated outer surface of the glove. After use, wash and dry your hands.	Type	Level	Time	Substances
		A	2	30 minutes	minimum 6
		B	2	30 minutes	minimum 3
		C	1	10 minutes	minimum 1
		MATERIALS FOR PROTECTION FROM CHEMICAL AGENTS			
Highlights	LATEX	NEOPRENE	NITRILE	PVC	
	Excellent flexibility and tear resistance	Polyvalent chemical resistance: acids, aliphatic solvents. Good resistance to sunlight and ozone.	Excellent resistance to abrasion and perforation. Excellent resistance to hydrocarbon derivatives	Good resistance to acids and bases	
Precautions	It can cause allergic reactions. Avoid contact with fatty oils and hydrocarbon derivatives.	Avoid contact with fatty oils and hydrocarbon derivatives	Avoid contact with solvents containing ketones and oxidizing acids, organic nitrogen products.	Weak mechanical resistance. Avoid contact with solvents containing ketones and aromatic solvents	

The Head of the Prevention and Protection Service will assess the need to provide protective devices.

#### USE WATERPROOF GLOVES

##### ii) other

PITTOGRAM	PPE	METHOD OF CHOOSING THE PPE				
		Full coverage garment		Partial coverage garment		
 Full body protective clothing	PPE for the body can be of different categories depending on their specific use. Under normal working conditions, normal work clothing offers characteristics that provide sufficient protection for workers. In activities presenting particular risks, specific "protective clothing" should be used which covers or replaces personal clothing and which is designed with specific protective characteristics. The basic requirements relating to the ergonomics and health of	DANGER	Waterproof	Permeable to air	Waterproof	Permeable to air
		Gas and fumes	A	NO	NO	NO
		Jets of liquids	A	NO	P	NO
		Splashes and splashes	A	P	P	P
		Dust	A	A	P	P
		Dirt	A	A	A	A


NO: Indicates that the possibility is not compatible - A: suitable combination - P: combination that depends on external conditions

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Work clothing	PPE for the body are: harmlessness of the materials, comfort and effectiveness factors, design, thermal resistance of the clothing and the characteristics of the operators. Please note that to ensure adequacy and mobility with full-coverage protective clothing, it is recommended that all operators carry out the "seven movements" test. Standard EN 13688 Protective clothing - General requirements	The protective clothing against chemicals, depending on the barrier performance of the raw material used and the packaging of the garment, have different types of protection: Type 1 (gas-tight), Type 2 (non-watertight gas), Type 3 (liquid tight), Type 4 (splash tight), Type 5 (dust tight), Type 6 (limited liquid splash tight). The chemical risks are many and it is therefore necessary to choose the most appropriate garment, also considering that the materials can be both waterproof and permeable, evaluating the combination between the type of protection offered by the construction techniques and the design adopted for the realization of the garment. itself and the performance class from the raw material.	

If the Head of the Prevention and Protection Service deems it necessary, protective clothing can be worn in combination with an appropriate respiratory protection device and with boots, gloves or other means of protection.

#### IN NORMAL USE, NO PERSONAL PROTECTION DEVICES ARE PROVIDED


##### c) RESPIRATORY PROTECTION

PITTOGRAM	PPE	METHOD OF CHOOSING THE PPE				
 <p>RPD (Respiratory protective devices)</p>	<p>PPE for respiratory protection are of the third category and must be provided with CE marking, the number of the Notified Body that issued the certification and must be provided only after information, training and specific training on their use. To define the type of RPD to use, pay attention to the oxygen rate present in the workplace, using the O<sub>2</sub> concentration of 17% as a limit. Carefully define the type of contaminant (Gas, steam / Dust, particles, viruses), its detection threshold and its use or not in a confined space.</p> <p>The UNI EN 529 standard (Respiratory protection devices - Recommendations for selection, use, care and maintenance - Guidance document) establishing the appropriate FPO value "operational protection factor" (eg use of face masks as per standard UNI EN149 - Respiratory protective devices - Filtering half mask against particles) can be a valid aid in determining the most correct PPE.</p>	DUST FILTERS				
		Efficiency	Dust class	RPD class and marking	Minimum total filtering efficiency	Protection
		LOW	Filters P1	Respirators FFP1	78%	Powders/Harmful aerosol
		AVERAGE	Filters P2	Respirators FFP2	92%	Powders/fumes/ low toxicity aerosol
		HIGH	Filters P3	Respirators FFP3	98%	Powders/fumes / Harmful aerosol
		GAS FILTERS				
		Capacity	Class	Maximum concentration		
		Low	1	Gas / vapor concentrations up to 1000 ppm		
		Average	2	Gas / vapor concentrations up to 5000 ppm		
		High	3	Gas / vapor concentrations up to 10000 ppm		
TYPE OF FILTERS						
Type	Protection			Filter color		
A	Organic gases and vapors with a boiling point > 65 ° C			BROWN		
B	Inorganic gases and vapors			GREY		
E	Acid gases			YELLOW		
K	Ammonia and derivatives			GREEN		
P	Toxic dusts, fumes, mists			WHITE		
AX (EN371)	Low boiling point organic gases and vapors <65 ° C			BROWN		
DUST FILTER RESPIRATORS						
Type of substance	Correct choice of filter type	Filter respirator	Nominal Protection Factor	Operational Protection Factor		
Concentrations	Need / opportunity to protect other parts of the face (eyes - face)	Facial Filter FFP1 Half mask + P1	4	4		
		Facial Filter FFP2 Half mask + P2	12	10		
Visibility	Reduction of protection	Facial Filter FFP3 Half mask + P3	50	30		
Freedom of movement	Reduction of weight and discomfort	Full face + P1	5	4		
Facial anatomy	Mask adequacy	Full face + P2	20	15		
Environmental conditions		Full face + P3	1000	400		

The Head of the Prevention and Protection Service, as well as correctly defining the specific PPE for the activities, must pay attention to follow the instructions provided by the manufacturers of the various PPE.

#### IN NORMAL USE, NO PERSONAL PROTECTION DEVICES ARE PROVIDED

##### d) THERMAL HAZARDS

PITTOGRAM	PPE	OBSERVATIONS
 <p>Hot/Cold</p>	<p>The indications provided in this section define the PPE intended to protect against possible temperature variations that the mixture causes or that the mixture itself may undergo during normal working activities. PPE must protect against excesses in external temperature by maintaining body temperature, thermally insulate while maintaining permeability to water and air to ensure sweating and moisture removal, respectively, so as not to cause heat loss. In order to protect themselves from the cold, PPE must retain a degree of flexibility that allows the operator to perform the necessary actions and to assume certain positions. PPE intended for short-term interventions or likely to receive projections of hot products, must have a calorific capacity sufficient to return most of the stored heat only after the user has removed them.</p>	<p>PPE intended to protect against thermal differences must have an adequate heat flow transmission coefficient to avoid any risk of damage as required by the foreseeable conditions of use.</p> <p>The heat flow transmitted to the operator during the use of PPE must be such that its accumulation does not in any case reach the pain threshold or the one in which any harmful effect on health occurs. PPE must prevent, as far as possible, the penetration of liquids and must not cause injury caused by contact between their protective coating and the operator.</p>

The choice of this type of PPE must be made by guaranteeing thermal insulation power and mechanical and chemical resistance adequate to the foreseeable conditions of use that the Head of the Prevention and Protection Service deems necessary.

**THE MIXTURE IS NOT EXPECTED TO CAUSE OR UNDERTAKE SIGNIFICANT TEMPERATURE CHANGES DURING THE INTENDED USE.**

#### 8.2.3 Environmental exposure controls

Prevent uncontrolled release into the environment.

### SECTION 9: Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

The physical and chemical properties listed below are not to be considered technical specifications. The reference specifications are shown in the technical documentation.

Physical and chemical properties		Value	Notes or analytical method
a)	Physical state	Solid	As defined in Annex I, section 1.0 of Reg. 1272/2008
b)	Colour	Various	--
c)	Odour	Characteristic of the fragrance	--
d)	Melting point/freezing point	Not determined	--
e)	Boiling point or initial boiling point and boiling range	Not determined	--
f)	Flammability	NO	--

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g) Lower and upper explosion limit	Not applicable	Not applicable to solids	
h) Flash point	Not applicable	It does not apply to gases, aerosols and solids	
i) Auto-ignition temperature	Not applicable	Applicable to gases and liquids only	
j) Decomposition temperature	Not applicable	Applicable only to self-reactive substances and mixtures, organic peroxides and other substances and mixtures which can decompose.	
k) pH	Not relevant	Insoluble in water	
l) Kinematic viscosity	Not applicable	It only applies to liquids	
m) Solubility	Insoluble in water	--	
n) Partition coefficient n-octanol/water (log value)	Not applicable	It does not apply to inorganic and ionic liquids and, as a rule, does not apply to mixtures	
o) Vapour pressure	Not determined	--	
p) Density and/or relative density	Not determined	--	
q) Relative vapour density	Not determined	--	
r) Particle characteristics	Not determined	--	

### 9.2 Other information

a) Explosives:	Not applicable
b) Flammable gases:	Not applicable
c) Aerosols:	Not applicable
d) Oxidising gases:	Not applicable
e) Gases under pressure:	Not applicable
f) Flammable liquids:	Not applicable
g) Flammable solids:	Not applicable
h) Self-reactive substances and mixtures:	Not applicable
i) Pyrophoric liquids:	Not applicable
j) Pyrophoric solids:	Not applicable
k) Self-heating substances and mixtures:	Not applicable
l) Substances and mixtures, which emit flammable gases in contact with water:	Not applicable
m) Oxidising liquids:	Not applicable
n) Oxidizing solids:	Not applicable
o) Organic peroxides:	Not applicable
p) Corrosive to metals:	Not applicable
q) Desensitised explosives:	Not applicable

#### 9.2.2 Other safety characteristics

Other physical and chemical parameters:

COV (Directive 2010/75 / EC)

: Not available

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Stable under normal conditions of use and storage.

### 10.2 Chemical stability

Stable under normal conditions of use and storage.

### 10.3 Possibility of hazardous reactions

None known under normal conditions of use.

### 10.4 Conditions to avoid

a) Temperature	:	do not subject to direct heating
b) Pressure	:	nothing to report
c) Light	:	nothing to report
d) Static discharge	:	nothing to report
e) Vibrations	:	nothing to report
f) Other physical stresses	:	no data available

### 10.5 Incompatible materials

a) Water	:	avoid contact
b) Air	:	nothing to report
c) Acids	:	avoid contact
d) Bases	:	avoid contact
e) Oxidising agents	:	avoid contact
f) Reducing agents	:	avoid contact
g) Chemicals	:	avoid contact

### 10.6 Hazardous decomposition products

Under normal conditions the preparation does not decompose. By thermal decomposition, fumes harmful to health can be developed.

## SECTION 11: Toxicological information

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

Hazard classes		Information
a)	acute toxicity	: Not classified. based on available data, the classification criteria are not met.
b)	skin corrosion/irritation	: Not classified. based on available data, the classification criteria are not met.
c)	serious eye damage/irritation	: Not classified. based on available data, the classification criteria are not met.
d)	respiratory or skin sensitisation	: The presence of sensitizing substances, even in very low concentrations, can cause an allergic reaction.
e)	germ cell mutagenicity	: Not classified. based on available data, the classification criteria are not met.
f)	carcinogenicity	: Not classified. based on available data, the classification criteria are not met.
g)	reproductive toxicity	: Not classified. based on available data, the classification criteria are not met.
h)	STOT-single exposure	: Not classified. based on available data, the classification criteria are not met.
i)	STOT-repeated exposure	: Not classified. based on available data, the classification criteria are not met.
j)	aspiration hazard	: Not classified. based on available data, the classification criteria are not met.

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**Specific toxicological information for the substances contained (if available)**

<b>Substance:</b>	Dicyclopentadiene propionate		
<b>CAS:</b>	68912-13-0		
<b>ORAL</b>	<b>INHALATION</b>	<b>DERMAL</b>	<b>NOTES</b>
Rat LD50: >5000 mg/kg bw	--	Rabbit LD50: >5000 mg/kg bw	--
The values entered in this section are those available, at the time of writing this SDS, in the ECHA dossier in the Toxicological information section or from the supplier's indications.			

<b>Substance:</b>	3-methoxy-3-methylbutan-1-ol		
<b>CAS:</b>	56539-66-3		
<b>ORAL</b>	<b>INHALATION</b>	<b>DERMAL</b>	<b>NOTES</b>
LD50: 4300 mg/kg bw	Rat LC50: >5000 mg/m <sup>3</sup> air	Rat LD50: >2000 mg/kg bw	--
The values entered in this section are those available, at the time of writing this SDS, in the ECHA dossier in the Toxicological information section or from the supplier's indications.			

<b>Substance:</b>	3-Ethoxy-4-hydroxybenzaldehyde / Ethyl vanillin		
<b>CAS:</b>	121-32-4		
<b>ORAL</b>	<b>INHALATION</b>	<b>DERMAL</b>	<b>NOTES</b>
Rat LD50: >3160 mg/kg bw	--	Rat LD50: >2000 mg/kg bw	--
The values entered in this section are those available, at the time of writing this SDS, in the ECHA dossier in the Toxicological information section or from the supplier's indications.			

<b>Substance:</b>	Vanillin		
<b>CAS:</b>	121-33-5		
<b>ORAL</b>	<b>INHALATION</b>	<b>DERMAL</b>	<b>NOTES</b>
Rat LD50: = 3978 mg/kg bw	--	Rat LD50: >2000 mg/kg bw	--
The values entered in this section are those available, at the time of writing this SDS, in the ECHA dossier in the Toxicological information section or from the supplier's indications.			

**EXPOSURE AND HEALTH EFFECTS****Routes of exposure****Inhalation risk****Effects of short-term exposure****Effects of long-term or repeated exposure****SYMPTOMS BY SPECIFIC ROUTE OF EXPOSURE****Inhalation** Cough**Skin** --**Eyes** Redness**Ingestion** --**Notes** ----  
An annoying concentration of aerodynamic particles can be reached quickly when dispersed, especially when powdered

<b>Substance:</b>	d-limonene / (R)-p-mentha-1,8-diene		
<b>CAS:</b>	5989-27-5		
<b>ORAL</b>	<b>INHALATION</b>	<b>DERMAL</b>	<b>NOTES</b>
Rat LD50: > 2000 mg/kg bw	--	Rabbit LD50: 5000 mg/kg bw	--
The values included in this section are those available, at the time of writing this SDS, in the ECHA dossier in the section Toxicological information or from the supplier's indications.			

**EXPOSURE AND HEALTH EFFECTS****Routes of exposure****Inhalation risk****Effects of short-term exposure****Effects of long-term or repeated exposure****SYMPTOMS BY SPECIFIC ROUTE OF EXPOSURE****Inhalation** Slight irritation of the upper respiratory tract**Skin** Redness. Pain.**Eyes** Redness.**Ingestion** If ingested, it can enter the respiratory tract with even lethal consequences.**Notes** --Inhalation, skin, eye, ingestion  
No indication can be given about the rate at which a harmful concentration of this substance in the air is reached on evaporation at 20°C.  
The substance is irritating to the skin. The substance is mildly irritating to the eyes.  
Repeated or prolonged contact may cause skin sensitization.

<b>Substance:</b>	Linalyl acetate		
<b>CAS:</b>	115-95-7		
<b>ORAL</b>	<b>INHALATION</b>	<b>SKIN</b>	<b>NOTES</b>
Rat LD50: > 9000 mg/kg bw	--	Rabbit LD50: > 5000 mg/kg bw	--
The values entered in this section are those available, at the time of writing this SDS, in the ECHA dossier in the Toxicological information section or from the supplier's indications.			

**EXPOSURE AND HEALTH EFFECTS****Routes of exposure****Inhalation risk****Effects of short-term exposure****Effects of long-term or repeated exposure****SYMPTOMS BY SPECIFIC ROUTE OF EXPOSURE****Inhalation** --**Skin** --**Eyes** Redness.**Ingestion** --**Notes** --Skin absorption  
No indication can be given about the rate in which a harmful concentration of this substance in the air is reached on evaporation at 20 ° C.  
The substance is mildly irritating to the eyes.  
--

<b>Substance:</b>	Linalool		
<b>CAS:</b>	78-70-6		
<b>ORAL</b>	<b>INHALATION</b>	<b>DERMAL</b>	<b>NOTES</b>
Mouse LD50: 2 200 mg/kg bw	Mouse LC50: > 3.2 mg/L (3200 mg/m <sup>3</sup> )	Rabbit LD50: 5 610 mg/kg bw	--
The values entered in this section are those available, at the time of writing this SDS, in the ECHA dossier in the Toxicological information section or from the supplier's indications.			

**EXPOSURE AND HEALTH EFFECTS****Routes of exposure****Inhalation risk****Effects of short-term exposure****Effects of long-term or repeated exposure****ACUTE HAZARDS/SYMPTOMS****Inhalation** --**Skin** Redness. Pain.The substance can be absorbed into the body by inhalation of its aerosol and by ingestion.  
No indication can be given about the rate at which a harmful concentration of this substance in the air is reached on evaporation at 20°C.  
The substance is irritating to the eyes and skin.  
The substance may have effects on the liver.

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Eyes	Redness, Pain.
Ingestion	--
Notes	--

Substance:	Hexamethylindanopyran		
CAS:	1222-05-5		
ORAL	INHALATION	DERMAL	NOTES
Rat LD50: > 3000 mg/kg bw	Rat LC50: > 5040 mg/m <sup>3</sup> air	Rat LD50: > 3250mg/kg bw	--
The values entered in this section are those available, at the time of writing this SDS, in the ECHA dossier in the Toxicological information section or from the supplier's indications.			

Substance:	Nerol		
CAS:	106-25-2		
ORAL	INHALATION	DERMAL	NOTES
Rat LD50: 4500 mg/kg bw	--	Rabbit LD50: >5000 mg/kg bw	--
The values entered in this section are those available, at the time of writing this SDS, in the ECHA dossier in the Toxicological information section or from the supplier's indications.			

Substance:	Dihydro Terpinyl acetate		
CAS:	-- EC: 939-728-7		
ORAL	INHALATION	DERMAL	NOTES
Rat LD50: 2000 mg/kg bw	--	Rat LD50: 2000 mg/kg bw	--
The values entered in this section are those available, at the time of writing this SDS, in the ECHA dossier in the Toxicological information section or from the supplier's indications.			

Substance:	Tetramethyl acetyloctahydronaphthalenes		
CAS:	54464-57-2		
ORAL	INHALATION	DERMAL	NOTES
Rat LD50: 5000 mg/kg bw	--	Rat LD50: 5000 mg/kg bw	--
The values entered in this section are those available, at the time of writing this SDS, in the ECHA dossier in the Toxicological information section or from the supplier's indications.			

Substance:	Geraniol		
CAS:	106-24-1		
ORAL	INHALATION	DERMAL	NOTES
Rat LD50: 3600 mg/kg bw	--	Rabbit LD50: > 5000 mg/kg bw	--
The values entered in this section are those available, at the time of writing this SDS, in the ECHA dossier in the Toxicological information section or from the supplier's indications.			

Substance:	4-methyl-3-decen-5-ol		
CAS:	81782-77-6		
ORAL	INHALATION	DERMAL	NOTES
Rat LD50: >8000 mg/kg bw	--	--	--
The values entered in this section are those available, at the time of writing this SDS, in the ECHA dossier in the Toxicological information section or from the supplier's indications.			

Substance:	1-(1,2,3,4,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl) ethan-1-one (INCI: Tetramethyl Acetyloctahydronaphthalenes)		
CAS:	68155-67-9		
ORAL	INHALATION	DERMAL	NOTES
Rat LD50: > 5000 mg/kg bw	--	Rat LD50: > 5000 mg/kg bw	--
The values entered in this section are those available, at the time of writing this SDS, in the ECHA dossier in the Toxicological information section or from the supplier's indications.			

Substance:	1-(1,2,3,5,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl) ethan-1-one (INCI: Tetramethyl Acetyloctahydronaphthalenes)		
CAS:	68155-66-8		
ORAL	INHALATION	DERMAL	NOTES
Rat LD50: > 5000 mg/kg bw	--	Rat LD50: > 5000 mg/kg bw	--
The values entered in this section are those available, at the time of writing this SDS, in the ECHA dossier in the Toxicological information section or from the supplier's indications.			

## 11.2 Information on other hazards

### 11.2.1 Endocrine disrupting properties

The mixture does NOT contain substances identified as having endocrine-disrupting properties in accordance with the criteria established in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 in concentrations equal to or greater than 0.1% in weight.

### 11.2.2 Other information

No further data available

## SECTION 12: Ecological information

Environmental Release Categories: ERC11a - Widespread use of articles with low release (indoor)

### 12.1 Toxicity

The product is dangerous for the environment as it is harmful to aquatic organisms following acute exposure.

Use according to good working practices, avoiding to disperse the product in the environment.

Ecotoxicological information specific to the substances contained

Substance:	Dicyclopentadiene propionate				
CAS:	68912-13-0				
LC50 – fish	96h: 6.7 mg/L	Species	Pimephales promelas	Guideline	OECD203
EC50 – aquatic invertebrates	48h: 14 mg/L	Species	Daphnia magna	Guideline	OECD202
EC50 – algae and cyanobacteria	72h: 2.5 mg/L	Species	Desmodesmus subspicatus	Guideline	OECD201
NOEC Cronica fish	--	Species	--	Guideline	--
NOEC Cronica aquatic invertebrates	--	Species	--	Guideline	--
NOEC Cronica algae and cyanobacteria	72h: 1.9 mg/L	Species	Desmodesmus subspicatus	Guideline	OECD201

Substance:	3-methoxy-3-methylbutan-1-ol				
CAS:	56539-66-3				
LC50 – fish	96h: > 100 mg/L	Species	Oryzias latipes	Guideline	OECD203
EC50 – aquatic invertebrates	48h: > 1000 mg/L	Species	Daphnia Magna	Guideline	OECD202
ERL50 - algae and cyanobacteria	72h: > 1000 mg/L	Species	Pseudokirchneriella subspicatus	Guideline	OECD201
NOEC Cronica fish	96h: 100 mg/L	Species	Oryzias latipes	Guideline	OECD203
NOEC Cronica aquatic invertebrates	48h: 1000 mg/L	Species	Daphnia Magna	Guideline	OECD202
NOERL Cronica algae and cyanobacteria	72h: 1000 mg/L	Specie	Pseudokirchneriella subspicatus	Guideline	OECD201

Substance:	3-Ethoxy-4-hdroxybenzaldehyde / Ethyl vanillin
CAS:	121-32-4

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LC50 – fish	96h - 87.6 mg/L	Species	Pimephales promelas	Guidelines	OECD203	
EC50 – aquatic invertebrates	48h – 26.2 mg/L	Species	Daphnia Magna	Guidelines	OECD202	
EC50 - aquatic algae and cyanobacteria	72h - > 100 mg/L	Species	Pseudokirchneriella supcapitata	Guidelines	OECD201	
NOEC chronic fish	96h - - - mg/L	Species	- -	Guidelines	- -	
NOEC chronic invertebrates	48h - - - mg/L	Species	- -	Guidelines	- -	
NOEC chronic algae and cyanobacteria	72h – 21.2 mg/L	Species	Pseudokirchneriella supcapitata	Guidelines	OECD201	
Substance:	Vanillin					
CAS:	121-33-5					
LC50 – fish	96h: 83.7 mg/L	Species	Pimephales promelas	Guidelines	OECD203	
EC50 – aquatic invertebrates	48h: 36.79 mg/L	Species	Daphnia Magna	Guidelines	OECD202	
EC50 - aquatic algae and cyanobacteria	72h: 120 mg/L	Species	Pseudokirchneriella supcapitata	Guidelines	OECD201	
NOEC chronic fish	- -	Species	- -	Guidelines	- -	
NOEC chronic invertebrates	- -	Species	- -	Guidelines	- -	
NOEC chronic algae and cyanobacteria	72h: 47 mg/L	Species	Pseudokirchneriella supcapitata	Guidelines	OECD201	
Substance:	d-limonene / (R)-p-mentha-1,8-diene					
CAS:	5989-27-5					
LC50 – fish	96h: < 1 mg/L	Species	Pimephales promelas	Guideline	OECD 203	
EC50 – aquatic invertebrates	48h: 0.307 mg/L	Species	Daphnia magna	Guideline	OECD 202	
ERL50 - algae and cyanobacteria	72h: 0.32 mg/L	Species	Pseudokirchneriella subcapitata	Guideline	OECD 201	
NOEC Cronica fish	- -	Species	- -	Guideline	- -	
NOEC Cronica aquatic invertebrates	- -	Species	- -	Guideline	- -	
NOErL Cronic algae and cyanobacteria	72h: 0.174 mg/L	Species	Pseudokirchneriella subcapitata	Guideline	OECD 201	
Substance:	Linalyl acetate					
CAS:	115-95-7					
LC50 – fish	96h: 11 mg/L	Species	Cyprinus carpio	Guidelines	OECD 203	
EC50 – aquatic invertebrates	48h: 59 mg/L	Species	Daphnia magna	Guidelines	OECD 202	
EC50 - aquatic algae and cyanobacteria	96h: 68 mg/L	Species	Pseudokirchneriella subcapitata	Guidelines	OECD 201	
NOEC chronic fish	- -	Species	- -	Guidelines	- -	
NOEC chronic invertebrates	- -	Species	- -	Guidelines	- -	
NOEC chronic algae and cyanobacteria	96h: 3.9 mg/L	Species	Pseudokirchneriella subcapitata	Guidelines	OECD 201	
Substance:	Linalool					
CAS:	78-70-6					
LC50 – fish	96h: 27.8 mg/L	Species	Salmo gairdneri	Guideline	OECD Guideline 203	
EC50 – aquatic invertebrates	48h: 59 mg/L	Species	Daphnia magna	Guideline	OECD Guideline 202	
ERL50 - algae and cyanobacteria	96h: 156.7 mg/L	Species	Desmodesmus subspicatus	Guideline	DIN 38412 L 9	
NOEC Cronica fish	96h: <3.5 mg/L	Species	Salmo gairdneri	Guideline	OECD Guideline 203	
NOEC Cronic aquatic invertebrates	48h: 25 mg/L	Species	Daphnia magna	Guideline	OECD Guideline 202	
NOErL Cronic algae and cyanobacteria	96h: 54.3 mg/L	Species	Desmodesmus subspicatus	Guideline	DIN 38412 L 9	
Substance:	Hexamethylindanopyran					
CAS:	1222-05-5					
LC50 – fish	96h: 0.95 mg/L	Species	Medaka larvae	Guideline	OECD 203	
EC50 – aquatic invertebrates	48h: 0.3 mg/L	Species	Daphnia magna	Guideline	OECD 202	
ERL50 - algae and cyanobacteria	72h: > 0.7 mg/L	Species	Pseudokirchneriella subcapitata	Guideline	OECD 201	
NOEC Cronica fish	- -	Species	- -	Guideline	- -	
NOEC Cronica aquatic invertebrates	48h: 0.3 mg/l	Species	- -	Guideline	- -	
NOErL Cronic algae and cyanobacteria	72h: 0.23 mg/L	Species	Pseudokirchneriella subcapitata	Guideline	OECD 201	
Substance:	Nerol					
CAS:	106-25-2					
LC50 – fish	96h: 20.3 mg/L	Species	Danio rerio	Guideline	OECD203	
EC50 – aquatic invertebrates	48h: 32.4 mg/L	Species	Daphnia Magna	Guideline	OECD202	
EC50 - aquatic algae and cyanobacteria	72h: 7.45 mg/L	Species	Pseudokirchneriella subcapitata	Guideline	OECD201	
NOEC chronic fish	- -	Species	- -	Guideline	- -	
NOEC chronic invertebrates	- -	Species	- -	Guideline	- -	
NOEC chronic algae and cyanobacteria	72h: 2.58 mg/L	Species	Pseudokirchneriella subcapitata	Guideline	OECD201	
Substance:	Dihydro Terpinyl acetate					
CAS:	- - EC: 939-728-7					
LC50 – fish	96h - 2.27 mg/l	Species	Danio rerio	Guideline	OECD 203	
EC50 – aquatic invertebrates	48h - 4.63 mg/l	Species	Daphnia magna	Guideline	OECD 202	
ERL50 - algae and cyanobacteria	72h - 2.73 mg/l	Species	Pseudokirchneriella subcapitata	Guideline	OECD 201	
NOEC Cronica fish	- -	Species	- -	Guideline	- -	
NOEC Cronica aquatic invertebrates	- -	Species	- -	Guideline	- -	
NOErL Cronic algae and cyanobacteria	72h - 0.939 mg/l	Species	Pseudokirchneriella subcapitata	Guideline	OECD 201	
Substance:	Tetramethyl acetyloctahydronaphthalenes					
CAS:	54464-57-2					
LC50 – fish	96h: 1.3 mg/L	Species	Lepomis macrochirus	Guidelines	OECD 203	
EC50 – aquatic invertebrates	48h: 1.38 mg/L	Species	Daphnia magna	Guidelines	OECD 202	
EC50 - aquatic algae and cyanobacteria	72h: > 2.6 mg/L	Species	- -	Guidelines	OECD 201	
NOEC chronic fish	30d: 0.54 mg/L	Species	Zebra fish	Guidelines	OECD 210	
NOEC chronic invertebrates	21d: 0.044 mg/L	Species	Daphnia magna	Guidelines	OECD 211	
NOEC chronic algae and cyanobacteria	72h: > 2.6 mg/L	Species	Scenedesmus subspicatus	Guidelines	OECD 201	
Substance:	Geraniol					
CAS:	106-24-1					
LC50 – fish	96h: 22 mg/L	Species	Brachydanio rerio	Guideline	DIN 38 412, parte L15	
EC50 – aquatic invertebrates	24h: 1.19 mg/L	Species	Daphnia magna	Guideline	Direttiva UE 79/831 / CEE, Allegato V, parte C	
ERL50 - algae and cyanobacteria	72h-0.82 mg/L	Species	Desmodesmus subspicatus	Guideline	Algae inhibition test supported by the UBA	
NOEC Cronica fish	- -	Species	- -	Guideline	- -	

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NOEC Cronica aquatic invertebrates	--	Species	--	Guideline	--
NOErL Cronic algae and cyanobacteria	--	Species	--	Guideline	--

<b>Substance:</b>	4-methyl-3-decen-5-ol				
<b>CAS:</b>	81782-77-6				
<b>LC50 – fish</b>	96h: 3 mg	<b>Species</b>	Pimephales promelas	<b>Guidelines</b>	OECD203
<b>EC50 – aquatic invertebrates</b>	48h: 0.4 mg/L	<b>Species</b>	Daphnia Magna	<b>Guidelines</b>	OECD202
<b>EC50 - aquatic algae and cyanobacteria</b>	72h: 3.6 mg/L	<b>Species</b>	Pseudokirchneriella subcapitata	<b>Guidelines</b>	OECD201
<b>NOEC chronic fish</b>	--	<b>Species</b>	--	<b>Guidelines</b>	--
<b>NOEC chronic invertebrates</b>	--	<b>Species</b>	--	<b>Guidelines</b>	--
<b>NOEC chronic algae and cyanobacteria</b>	72h: 0.68 mg/L	<b>Species</b>	Pseudokirchneriella subcapitata	<b>Guidelines</b>	OECD201

<b>Substance:</b>	1-(1,2,3,4,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl) ethan-1-one (INCI: Tetramethyl Acetyloctahydronaphthalenes)				
<b>CAS:</b>	68155-67-9				
<b>LC50 – fish</b>	96h: 0.563 mg/l	<b>Species</b>	Lepomis macrochirus	<b>Guidelines</b>	OECD 203
<b>EC50 – aquatic invertebrates</b>	48h: 1.38 mg/l	<b>Species</b>	Daphnia magna	<b>Guidelines</b>	OECD guideline 202
<b>EC50 - aquatic algae and cyanobacteria</b>	72h: > 2.6 mg/l	<b>Species</b>	Scenedesmus subspicatus	<b>Guidelines</b>	OECD guideline 201
<b>NOEC chronic fish</b>	--	<b>Species</b>	--	<b>Guidelines</b>	--
<b>NOEC chronic invertebrates</b>	--	<b>Species</b>	--	<b>Guidelines</b>	--
<b>NOEC chronic algae and cyanobacteria</b>	72h: ≥ 2.6 mg/l	<b>Species</b>	Scenedesmus subspicatus	<b>Guidelines</b>	OECD guideline 201

<b>Substance:</b>	1-(1,2,3,5,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl) ethan-1-one (INCI: Tetramethyl Acetyloctahydronaphthalenes)				
<b>CAS:</b>	68155-66-8				
<b>LC50 – fish</b>	96h: 0.563 mg/l	<b>Species</b>	Lepomis macrochirus	<b>Guidelines</b>	OECD 203
<b>EC50 – aquatic invertebrates</b>	48h: 1.38 mg/l	<b>Species</b>	Daphnia magna	<b>Guidelines</b>	OECD guideline 202
<b>EC50 - aquatic algae and cyanobacteria</b>	72h: > 2.6 mg/l	<b>Species</b>	Scenedesmus subspicatus	<b>Guidelines</b>	OECD guideline 201
<b>NOEC chronic fish</b>	--	<b>Species</b>	--	<b>Guidelines</b>	--
<b>NOEC chronic invertebrates</b>	--	<b>Species</b>	--	<b>Guidelines</b>	--
<b>NOEC chronic algae and cyanobacteria</b>	72h: ≥ 2.6 mg/l	<b>Species</b>	Scenedesmus subspicatus	<b>Guidelines</b>	OECD guideline 201

## 12.2 Persistence and degradability

May cause long-term adverse effects in the aquatic environment.

Specific biodegradation information for the substances contained

<b>Substance:</b>	Dicyclopentadiene propionate		
<b>CAS:</b>	68912-13-0		
<b>Biodegradation in water</b>	Readily biodegradable	<b>Test time</b>	17d

<b>Substance:</b>	3-methoxy-3-methylbutan-1-ol		
<b>CAS:</b>	56539-66-3		
<b>Biodegradation in water</b>	Readily biodegradable	<b>Test time</b>	28d

<b>Substance:</b>	3-Ethoxy-4-hydroxybenzaldehyde / Ethyl vanillin		
<b>CAS:</b>	121-32-4		
<b>Biodegradation in water</b>	Readily biodegradable	<b>Test time</b>	14d

<b>Substance:</b>	Vanillin		
<b>CAS:</b>	121-33-5		
<b>Biodegradation in water</b>	Readily biodegradable	<b>Test time</b>	14d

<b>Substance:</b>	d-limonene / (R)-p-mentha-1,8-diene		
<b>CAS:</b>	5989-27-5		
<b>Biodegradation in water</b>	Readily biodegradable	<b>Test time</b>	28 d

<b>Substance:</b>	Linalyl acetate		
<b>CAS:</b>	115-95-7		
<b>Biodegradation in water</b>	Readily biodegradable	<b>Test time</b>	28d

<b>Substance:</b>	Linalool		
<b>CAS:</b>	78-70-6		
<b>Biodegradation in water</b>	Readily biodegradable	<b>Test time</b>	28d

<b>Substance:</b>	Hexamethylindanopyran		
<b>CAS:</b>	1222-05-5		
<b>Biodegradation in water</b>	Not readily biodegradable	<b>Test time</b>	28d

<b>Substance:</b>	Nerol		
<b>CAS:</b>	106-25-2		
<b>Biodegradation in water</b>	Readily biodegradable	<b>Test time</b>	28d

<b>Substance:</b>	Dihydro Terpinyl acetate		
<b>CAS:</b>	-- EC: 939-728-7		
<b>Biodegradation in water</b>	Readily biodegradable	<b>Test time</b>	28d

<b>Substance:</b>	Tetramethyl acetyloctahydronaphthalenes		
<b>CAS:</b>	54464-57-2		
<b>Biodegradation in water</b>	Not biodegradable	<b>Test time</b>	42d

<b>Substance:</b>	Geraniol		
<b>CAS:</b>	106-24-1		
<b>Biodegradation in water</b>	Readily biodegradable	<b>Test time</b>	--

<b>Substance:</b>	4-methyl-3-decen-5-ol		
<b>CAS:</b>	81782-77-6		
<b>Biodegradation in water</b>	Readily biodegradable	<b>Test time</b>	28d

<b>Substance:</b>	1-(1,2,3,4,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl) ethan-1-one (INCI: Tetramethyl Acetyloctahydronaphthalenes)		
<b>CAS:</b>	68155-67-9		

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Biodegradation in water		Not biodegradable		Test time 42d	
Substance: 1-(1,2,3,5,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl) ethan-1-one (INCI: Tetramethyl Acetyloctahydronaphthalenes)		CAS: 68155-66-8			
Biodegradation in water		Not biodegradable		Test time 42d	
<b>12.3 Bioaccumulative potential</b>					
Data not available for the mixture.					
Bioaccumulation information specific to the substances contained					
Substance: Dicyclopentadiene propionate		CAS: 68912-13-0			
Partition coefficient: octanol/water		Log Kow (Log Pow): 4.4 at 30°C			
BCF		156 l/kg ww			
Substance: 3-methoxy-3-methylbutan-1-ol		CAS: 56539-66-3			
Partition coefficient: octanol/water		Log Kow (Log Pow): 0.18 at 25°C			
BCF		3.16 L/kg ww			
Substance: 3-Ethoxy-4-hydroxybenzaldehyde / Ethyl vanillin		CAS: 121-32-4			
Coefficient: n-octanol / water		Log Kow (Log Pow): 1.58 at 25°C			
BCF		The study should not be conducted because the substance has low bioaccumulation potential based on log Kow <= 3			
Substance: Vanillin		CAS: 121-33-5			
Partition coefficient: n-octanol/water		Log Kow (Log Pow): 1.17 at 20°C			
BCF		The study should not be conducted because the substance has low bioaccumulation potential based on log Kow <= 3			
Substance: d-limonene / (R)-p-mentha-1,8-diene		CAS: 5989-27-5			
Partition coefficient: n-octanol / water		Log Kow (Log Pow): 4.38 at 25°C			
BCF		690.1 L/kg ww			
Substance: Linalyl acetate		CAS: 115-95-7			
Partition coefficient: n-octanol / water		Log Kow (Log Pow): - 3.9 at 25 °C			
BCF		174 L/kg w/w			
Substance: Linalool		CAS: 78-70-6			
Partition coefficient: octanol/water		Log Kow (Log Pow): - 2.9 at 20 °C			
BCF		The study should not be conducted because the substance has low bioaccumulation potential based on log Kow <= 3			
Substance: Hexamethylindanopyran		CAS: 1222-05-5			
Partition coefficient: n-octanol / water		Log Kow (Log Pow): 5.3 at 25°C			
BCF		(aquatic species): 1 584 L / kg bw (Terrestrial species): 2 395 L / kg bw			
Substance: Nerol		CAS: 106-25-2			
Partition coefficient: n-octanol/water		Log Kow (Log Pow): 2.76 at 30°C			
BCF		Based on the log Kow result, nerol shows low bioaccumulation potential.			
Substance: Dihydro Terpinyl acetate		CAS: -- EC: 939-728-7			
Partition coefficient: n-octanol / water		4.26 at 20°C			
BCF		348.3 l/kg w/w			
Substance: Tetramethyl acetyloctahydronaphthalenes		CAS: 54464-57-2			
Partition coefficient: n-octanol / water		Log Kow (Log Pow): 5.65 to 30°C			
BCF		391 L/kg ww			
Substance: Geraniol		CAS: 106-24-1			
Partition coefficient: n-octanol/water		Log Kow (Log Pow): 2.6 at 25 °C			
BCF		The study should not be conducted because the substance has low bioaccumulation potential based on log Kow <= 3			
Substance: 4-methyl-3-decen-5-ol		CAS: 81782-77-6			
Partition coefficient: n-octanol/water		Log Kow (Log Pow): 3.9			
BCF		174 L/kg ww			
Substance: 1-(1,2,3,4,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl) ethan-1-one (INCI: Tetramethyl Acetyloctahydronaphthalenes)		CAS: 68155-67-9			
Partition coefficient: n-octanol/water		Log Kow (Log Pow): 5.65 at 30°C			
BCF		(Aquatic species): 391 l/kg bw (Terrestrial species): 5361 l/kg bw			
Substance: 1-(1,2,3,5,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl) ethan-1-one (INCI: Tetramethyl Acetyloctahydronaphthalenes)		CAS: 68155-66-8			
Partition coefficient: n-octanol/water		Log Kow (Log Pow): 5.65 at 30°C			
BCF		(Aquatic species): 391 l/kg bw (Terrestrial species): 5361 l/kg bw			

**12.4 Mobility in soil**

Data not available for the mixture.

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**Mobility information in soil specific to the substances contained**

<b>Substance:</b>	Dicyclopentadiene propionate
<b>CAS:</b>	68912-13-0
Koc at 20 °C: 1 300 [LogKoc: 3.11]	
<b>Substance:</b>	3-methoxy-3-methylbutan-1-ol
<b>CAS:</b>	56539-66-3
Koc at 20°C: 2.66 [= LogKoc: 0.41]	
<b>Substance:</b>	3-Ethoxy-4-hydroxybenzaldehyde / Ethyl vanillin
<b>CAS:</b>	121-32-4
Koc at 25°C: 1 236 [= LogKoc: 2.56]	
<b>Substance:</b>	Vanillin
<b>CAS:</b>	121-33-5
Koc a 20 °C: 4 898 (Log Koc: 3.438)	
<b>Substance:</b>	d-limonene / (R)-p-mentha-1,8-diene
<b>CAS:</b>	5989-27-5
Log Koc: 3.383 (Koc: 2413 L/kg a 20°C)	
<b>Substance:</b>	Linalyl acetate
<b>CAS:</b>	115-95-7
Log Koc = 2,6359 (Koc a 20 °C: 432.4) on the basis of this result, adsorption to the solid phase of soil is not expected.	
<b>Substance:</b>	Linalool
<b>CAS:</b>	78-70-6
In accordance with column 2 of Annex VIII to REACH, adsorption/desorption tests (both screening and further testing) are not necessary as the substance is expected to have low adsorption potential based on its low log Kow (<3) and the substance is easily biodegradable and therefore rapidly degrades in the environment.	
<b>Substance:</b>	Hexamethylindanopyran
<b>CAS:</b>	1222-05-5
Log 4.16 (Koc: 14.300 L/kg) the substance will have a high potential for sediment/soil absorption.	
<b>Substance:</b>	Nerol
<b>CAS:</b>	106-25-2
Koc at 20 °C: 143 (LogKoc: 2.155)	
<b>Substance:</b>	Dihydro Terpinyl acetate
<b>CAS:</b>	- - EC: 939-728-7
Koc at 20 °C: 1 081 (LogKoc = 3.034)	
<b>Substance:</b>	Tetramethyl acetyloctahydronaphthalenes
<b>CAS:</b>	54464-57-2
Koc at 20°C: 12589 [Log Koc: 4.12]	
<b>Substance:</b>	Geraniol
<b>CAS:</b>	106-24-1
A log Koc of 1,85 was calculated for the substance using SRC PCKOCWIN v1.66. Log Koc indicates that adsorption of the substance is not expected in soil and sediment.	
<b>Substance:</b>	4-methyl-3-decen-5-ol
<b>CAS:</b>	81782-77-6
Koc at 20 °C: 1175 (log Koc 3.07)	
<b>Substance:</b>	1-(1,2,3,4,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl) ethan-1-one (INCI: Tetramethyl Acetyloctahydronaphthalenes)
<b>CAS:</b>	68155-67-9
Koc at 20 °C: 12 589 [LogKoc: 4.12]	
<b>Substance:</b>	1-(1,2,3,5,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl) ethan-1-one (INCI: Tetramethyl Acetyloctahydronaphthalenes)
<b>CAS:</b>	68155-66-8
Koc at 20 °C: 12 589 [LogKoc: 4.12]	

**12.5 Results of PBT and vPvB assessment**

The chemical safety report is not required for the mixture. However, based on the available data, the mixture does not contain PBT or vPvB substances in a percentage higher than 0.1 in accordance with Regulation 1907/2006, annex XIII.

**12.6 Endocrine disrupting properties**

The mixture does NOT contain substances identified as having endocrine-disrupting properties in accordance with the criteria established in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 in concentrations equal to or greater than 0.1% in weight.

**12.7 Other adverse effects**

**Classification for water pollution in Germany (AwSV, vom 18. April 2017):** WGK 2: Dangerous for the waters.

**SECTION 13: Disposal considerations**

The substance/mixture shall not be removed through the sewerage system.

**13.1 Waste treatment methods****Container material and type:**

Glass / Plastic / Paper / Metal / Composite (identify the exact material from the symbols on the packaging).

**Methods for waste treatment of the substance or mixture:**

DANGER FEATURES (Directive 2008/98 / EC) : HP14 - Ecotoxic  
 RECOVERY OPERATIONS (Directive 2008/98 / EC) : R13 - Storage of waste pending any of the operations numbered R 1 to R 12 (excluding temporary storage, pending collection, on the site where the waste is produced)  
 DISPOSAL OPERATIONS (Directive 2008/98 / EC) : D13 - Blending or mixing prior to submission to any of the operations numbered D 1 to D 12  
 EER CODE : 20 01 39 Plastics

**Methods for handling any contaminated packaging:**

DANGER FEATURES (Directive 2008/98 / EC) : HP14 - Ecotoxic

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RECOVERY OPERATIONS (Directive 2008/98 / EC) : R13 - Storage of waste pending any of the operations numbered R 1 to R 12 (excluding temporary storage, pending collection, on the site where the waste is produced)

DISPOSAL OPERATIONS (Directive 2008/98 / EC) : D13 - Blending or mixing prior to submission to any of the operations numbered D 1 to D 12

EER CODE : 15 01 02 plastic packaging

**Physical / chemical properties that can affect waste treatment:**

None known

**Special precautions for recommended waste treatment:**

The hazard characteristics, disposal and recovery operations and the suggested EWC codes refer to the product as it is without considering any changes due to use. It is therefore recommended, before disposal, to reclassify the waste, also evaluating its origin. Any mixing of different types of non-hazardous waste and any mixture of different hazardous waste is prohibited (Article 23 of Directive 2008/98 / EC). Disposal must be entrusted to an authorized waste treatment company, in compliance with national and possibly local regulations

## SECTION 14: Transport information

Not included in the scope of the dangerous goods transport regulations: by road (ADR); by rail (RID); by air (ICAO/IATA); by sea (IMDG)

		ADR	IMDG	IATA
14.1	UN number or ID number		Not applicable	
14.2	UN proper shipping name		Not applicable	
	Technical name		Not applicable	
14.3	Transport hazard class(es)		Not applicable	
	Label		Not applicable	
14.4	Packing group		Not applicable	
	Limited quantities		Not applicable	
	Internal packaging (primary)		Not applicable	
	Outer packaging <sup>(1)</sup>		Not applicable	
	Packing Instruction		Not applicable	
	Tunnel restriction code		Not applicable	
	EmS		Not applicable	
14.5	Stowage and segregation		Not applicable	
	Environmental hazards		Not applicable	
	Marine pollutant		Not applicable	
14.6	Special precautions for user		Not applicable	
14.7	Maritime transport in bulk according to IMO instruments		Not applicable	

1:30 kg in the case of boxes - 20 kg in the case of trays with stretch or shrink film

## SECTION 15: Regulatory information

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

**Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006** concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.

**REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008** on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

**Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008** on waste and repealing certain Directives.

**Regulation (EU) No 528/2012 of the European Parliament and of the Council of 22 May 2012** concerning the making available on the market and use of biocidal products.

**Commission Delegated Regulation (EU) 2017/2100 of 4 September 2017** setting out scientific criteria for the determination of endocrine-disrupting properties pursuant to Regulation (EU) No 528/2012 of the European Parliament and Council.

**Commission Regulation (EU) No 1357/2014 of 18 December 2014** replacing Annex III to Directive 2008/98/EC of the European Parliament and of the Council on waste and repealing certain Directives

**COMMISSION DECISION of 18 December 2014** amending Decision 2000/532/EC on the list of waste pursuant to Directive 2008/98/EC of the European Parliament and of the Council

**REGULATION (EC) No 648/2004 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 31 March 2004** on detergents

**DIRECTIVE 2012/18/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012** on the control of major-accident hazards involving dangerous substances, amending and subsequently repealing Council Directive 96/82/EC

**Category SEVESO:**

Not applicable

**Regulation (EU) 2019/1148** of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors, amending Regulation (EC) No 1907/2006 and repealing Regulation (EU) No 98/2013

The mixture does not contain an explosive precursor.

### 15.2 Chemical safety assessment

Chemical safety assessment for the mixture not foreseen. This safety data sheet contains one or more Exposure Scenarios in an integrated form. The content, where relevant, has been included in sections 1.2, 8, 9, 12, 15 and 16 of the same safety data sheet

## SECTION 16: Other information

### 16.1 Indication of any points of the SDS that have been revised

This sheet completely replaces all previous versions.

### 16.2 Key abbreviations and acronyms used in this SDS

<b>APVR</b>	Respiratory protective equipment	<b>FPO</b>	Operational protection factor
<b>ATE</b>	Acute Toxicity Estimates	<b>GHS</b>	Globally Harmonized System
<b>BCF</b>	Bioconcentration Factor	<b>HP</b>	Hazardous Properties
<b>CAS</b>	Chemical abstract service	<b>IMO</b>	International Maritime Organization
<b>CE</b>	European Community	<b>ISO</b>	International Standard Organization
<b>CLP</b>	Classification, Labelling and Packaging	<b>LC50</b>	Median lethal concentration
<b>COV</b>	Volatile Organic Compounds	<b>LD50</b>	Median lethal dose
<b>DNEL</b>	Derived No Effect Level	<b>N.A.S.</b>	Not otherwise specified
<b>DPI</b>	Dispositivi di Protezione Individuale	<b>NOEC</b>	No observed effect concentration
<b>EC</b>	European Community	<b>ONU</b>	United Nations Organization
<b>EC50</b>	Half maximal effective concentration	<b>PBT</b>	Persistent, Bioaccumulative and Toxic Substances
<b>ECHA</b>	European Chemicals Agency	<b>vPvB</b>	Very Persistent and very Bioaccumulative substances
<b>EER</b>	European Waste List	<b>ppm</b>	Parts per million
<b>EmS</b>	Emergency Schedules	<b>PROC</b>	Category of processes
<b>EN</b>	European normalization	<b>REACH</b>	Regulation on Registration, Evaluation, Authorisation and Restriction of Chemicals
<b>ERC</b>	Environmental release categories	<b>STOT</b>	Specific target organ toxicity

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<b>EUH</b> Supplemental hazard information		<b>STP</b> Sewage treatment plant	
<b>EuPCS</b> European Product Categorisation System		<b>UE</b> European Union	
<b>FPN</b> Protection factor Nominal		<b>UFI</b> Unique Identifier of Formula	
<b>FFP</b> Filtering Facepiece		<b>UNI</b> Italian Standard Organization.	

**16.3 Full text of the Classification Information set out in Section 3**

Description of the hazard class and category codes set out in section 3	Description of the hazard statements set out in section 3
<b>Acquatic Chronic 2</b> Hazardous to the aquatic environment — Chronic Hazard, Category 2	<b>H411 =</b> Toxic to aquatic life with long lasting effects
<b>Eye Irrit. 2</b> Serious eye damage/eye irritation, Hazard Category 2	<b>H319 =</b> Causes serious eye irritation.
<b>Flam. Liq. 3</b> Flammable liquids, Hazard Category 3	<b>H226 =</b> Flammable liquid and vapour
<b>Asp. Tox. 1</b> Aspiration hazard, Hazard Category 1	<b>H304 =</b> May be fatal if swallowed and enters airways.
<b>Skin Irrit. 2</b> Skin corrosion/irritation, Hazard Category 2	<b>H315 =</b> Causes skin irritation
<b>Skin Sens. 1</b> Sensitisation — Skin, hazard category 1	<b>H317 =</b> May cause an allergic skin reaction.
<b>Acquatic Acute 1</b> Hazardous to the aquatic environment — Acute Hazard, Category 1	<b>H400 =</b> Very toxic to aquatic life.
<b>Acquatic Chronic 1</b> Hazardous to the aquatic environment — Chronic Hazard, Category 1	<b>H410 =</b> Very toxic to aquatic life with long lasting effects.
<b>Skin Sens. 1B</b> Sensitisation — Skin, hazard category 1B	<b>H317 =</b> May cause an allergic skin reaction.
<b>Eye Dam. 1</b> Serious eye damage/eye irritation, Hazard Category 1	<b>H318 =</b> Causes serious eye damage.
<b>M-Factor</b> Means a multiplying factor. It is applied to the concentration of a substance classified as hazardous to the aquatic environment acute category 1 or chronic category 1.	
<b>CLP Annex VI annotation</b> C = Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.	

**16.4 Bibliographical references and main data sources**

<b>ECHA</b> European Chemicals Agency	<b>OSHA</b> European Agency for Safety and Health at Work	<b>IARC</b> International Agency for Research on Cancer
<b>TOXNET</b> Toxicology Data Network	<b>WHO</b> World Health Organization	<b>ACGIH</b> American Conference of Governmental Industrial Hygienists
<b>CheLIST</b> Chemical Lists Information System	<b>ICSCs</b> International Chemical Safety Cards	<b>ILO</b> International Labour Organization
<b>IPCS</b> International Programme on Chemical Safety (Cards)	<b>NIOSH</b> Registry of toxic effects of chemical substances (1983)	<b>IFA</b> Institut für Arbeitsschutz der Deutschen Gesetzlichen Unfallversicherung

**16.5 Normative references and / or documents (from which the data in section 8.1 derive)**

Code <sup>(1)</sup>	State	Bibliography / documents → LINK	
AUS	Australia	<a href="https://www.dguv.de/ifa/...../limit-values-australia/index-2.jsp">https://www.dguv.de/ifa/...../limit-values-australia/index-2.jsp</a>	<a href="https://engage.swa.gov.au/workplace-exposure-standards-review">https://engage.swa.gov.au/workplace-exposure-standards-review</a>
		<a href="https://www.safeworkaustralia.gov.au/exposure-standards#exposure-standards-in-australia">https://www.safeworkaustralia.gov.au/exposure-standards#exposure-standards-in-australia</a>	
AUT	Austria	<a href="https://www.dguv.de/ifa/...../limit-values-austria/index-2.jsp">https://www.dguv.de/ifa/...../limit-values-austria/index-2.jsp</a>	<a href="https://www.jusline.at/gesetz/gkv_2011">https://www.jusline.at/gesetz/gkv_2011</a>
		<a href="https://www.ris.bka.gv.at/GeltendeFassung.wxe?Abfrage=Bundesnormen&amp;Gesetzesnummer=20001418">https://www.ris.bka.gv.at/GeltendeFassung.wxe?Abfrage=Bundesnormen&amp;Gesetzesnummer=20001418</a>	
BEL	Belgium	<a href="https://www.dguv.de/ifa/...../limit-values-belgium/index-2.jsp">https://www.dguv.de/ifa/...../limit-values-belgium/index-2.jsp</a>	<a href="https://employment.belgium.be/en">https://employment.belgium.be/en</a>
BGR	Bulgaria	<a href="https://pirogov.eu/bg/">https://pirogov.eu/bg/</a>	
CAN	Canada-Ontario	<a href="https://www.dguv.de/ifa/...../limit-values-canada-ontario/index-2.jsp">https://www.dguv.de/ifa/...../limit-values-canada-ontario/index-2.jsp</a>	<a href="https://www.labour.gov.on.ca/english/hs/pubs/oel_table.php">https://www.labour.gov.on.ca/english/hs/pubs/oel_table.php</a>
CAN	Canada-Québec	<a href="https://www.dguv.de/ifa/...../limit-values-canada-quebec/index-2.jsp">https://www.dguv.de/ifa/...../limit-values-canada-quebec/index-2.jsp</a>	<a href="http://legisquebec.gouv.qc.ca/fr/showdoc/cr/S.....">http://legisquebec.gouv.qc.ca/fr/showdoc/cr/S.....</a>
		<a href="https://www.cstt.qc.ca/Pages/index.aspx">https://www.cstt.qc.ca/Pages/index.aspx</a>	
CYP	Cyprus	<a href="http://www.mlsi.gov.cy/">http://www.mlsi.gov.cy/</a>	
CAE	Czech Republic	<a href="https://www.mzcr.cz/">https://www.mzcr.cz/</a>	
HRV	Croatia	<a href="https://www.hzt.hr">https://www.hzt.hr</a>	
DNK	Denmark	<a href="https://www.dguv.de/ifa/...../limit-values-denmark/index-2.jsp">https://www.dguv.de/ifa/...../limit-values-denmark/index-2.jsp</a>	<a href="https://www.retsinformation.dk/eli/Ita/2019/1458">https://www.retsinformation.dk/eli/Ita/2019/1458</a>
EST	Estonia	<a href="http://www.16662.ee/">http://www.16662.ee/</a>	
EU <sup>(2)</sup>	European Union	<a href="https://www.dguv.de/ifa/...../limit-values-european-union/index-2.jsp">https://www.dguv.de/ifa/...../limit-values-european-union/index-2.jsp</a>	<a href="https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX:31998L0024">https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX:31998L0024</a>
		<a href="https://eur-lex.europa.eu/legal-content/EN/TXT/?qid=1523372586043&amp;uri=CELEX:32004L0037">https://eur-lex.europa.eu/legal-content/EN/TXT/?qid=1523372586043&amp;uri=CELEX:32004L0037</a>	
FIN	Finland	<a href="https://www.dguv.de/ifa/...../limit-values-finland/index-2.jsp">https://www.dguv.de/ifa/...../limit-values-finland/index-2.jsp</a>	<a href="https://julkaisut.valtioneuvosto.fi/handle/10024/160967">https://julkaisut.valtioneuvosto.fi/handle/10024/160967</a>
FRA	France	<a href="https://www.dguv.de/ifa/...../limit-values-france/index-2.jsp">https://www.dguv.de/ifa/...../limit-values-france/index-2.jsp</a>	<a href="https://www.anses.fr/fr">https://www.anses.fr/fr</a>
		<a href="http://www.inrs.fr/accueil/dms/inrs/CataloguePapier/ED/TI-ED-984/ed984.pdf">http://www.inrs.fr/accueil/dms/inrs/CataloguePapier/ED/TI-ED-984/ed984.pdf</a>	
DEU	Germany (AGS)	<a href="https://www.dguv.de/ifa/...../limit-values-germany-(ags)/index-2.jsp">https://www.dguv.de/ifa/...../limit-values-germany-(ags)/index-2.jsp</a>	<a href="https://www.baua.de/DE/...../Regelwerk/TRGS/pdf/TRGS-900.pdf">https://www.baua.de/DE/...../Regelwerk/TRGS/pdf/TRGS-900.pdf</a>
DEU	Germany (DFG)	<a href="https://www.dguv.de/ifa/...../limit-values-germany-(dfg)/index-2.jsp">https://www.dguv.de/ifa/...../limit-values-germany-(dfg)/index-2.jsp</a>	<a href="https://www.dfg.de/en/dfg_profile/...../health_hazards/index.html">https://www.dfg.de/en/dfg_profile/...../health_hazards/index.html</a>
		<a href="https://www.dfg.de/dfg_profil/gremien/senat/arbeitsstoffe/publikationen/index.html">https://www.dfg.de/dfg_profil/gremien/senat/arbeitsstoffe/publikationen/index.html</a>	
GRC	Greece	<a href="http://www.gcsi.gr/">http://www.gcsi.gr/</a>	
HUN	Hungary	<a href="https://www.dguv.de/ifa/...../limit-values-hungary/index-2.jsp">https://www.dguv.de/ifa/...../limit-values-hungary/index-2.jsp</a>	<a href="https://www.biztonsagadatlap.hu/...../5_2020-II-6-ITM-rendelet.pdf">https://www.biztonsagadatlap.hu/...../5_2020-II-6-ITM-rendelet.pdf</a>
ISL	Iceland	<a href="https://www.ust.is/the-environment-agency-of-iceland/chemicals/">https://www.ust.is/the-environment-agency-of-iceland/chemicals/</a>	
IRL	Ireland	<a href="https://www.dguv.de/ifa/...../limit-values-ireland/index-2.jsp">https://www.dguv.de/ifa/...../limit-values-ireland/index-2.jsp</a>	<a href="https://www.hsa.ie/eng/...../2016_CodePracticeChemicalAgentsRegulations/">https://www.hsa.ie/eng/...../2016_CodePracticeChemicalAgentsRegulations/</a>
ITA	Italy	<a href="https://www.dguv.de/ifa/...../limit-values-italy/index-2.jsp">https://www.dguv.de/ifa/...../limit-values-italy/index-2.jsp</a>	<a href="http://www.preparatipericolosi.is.it">http://www.preparatipericolosi.is.it</a>
JPN	Japan (MHLW)	<a href="https://www.dguv.de/ifa/...../limit-values-japan/index-2.jsp">https://www.dguv.de/ifa/...../limit-values-japan/index-2.jsp</a>	<a href="https://www.mhlw.go.jp/english/index.html">https://www.mhlw.go.jp/english/index.html</a>
JPN	Japan (ISOH)	<a href="https://www.dguv.de/ifa/...../limit-values-japan-iso/index-2.jsp">https://www.dguv.de/ifa/...../limit-values-japan-iso/index-2.jsp</a>	<a href="https://www.sanei.or.jp/">https://www.sanei.or.jp/</a>
LVA	Latvia	<a href="https://www.dguv.de/ifa/...../limit-values-latvia/index-2.jsp">https://www.dguv.de/ifa/...../limit-values-latvia/index-2.jsp</a>	<a href="https://likumi.lv/doc.php?id=157382&amp;from=off">https://likumi.lv/doc.php?id=157382&amp;from=off</a>
LTU	Lithuania	<a href="http://www.gamta.lt/">http://www.gamta.lt/</a>	
LUX	Luxembourg	<a href="http://www.ms.public.lu/fr/">http://www.ms.public.lu/fr/</a>	
MLT	Malta	<a href="https://mccaa.org.mt/">https://mccaa.org.mt/</a>	
NZL	New Zealand	<a href="https://www.dguv.de/ifa/...../limit-values-new-zealand/index-2.jsp">https://www.dguv.de/ifa/...../limit-values-new-zealand/index-2.jsp</a>	<a href="https://worksafe.govt.nz/.work-health/./std-biol-exposure-indices/">https://worksafe.govt.nz/.work-health/./std-biol-exposure-indices/</a>
NOR	Norway	<a href="http://www.miljodirektoratet.no/">http://www.miljodirektoratet.no/</a>	<a href="https://www.fhi.no/en/">https://www.fhi.no/en/</a>
CHN	People's Republic of China	<a href="https://www.dguv.de/ifa/...../limit-values-china/index-2.jsp">https://www.dguv.de/ifa/...../limit-values-china/index-2.jsp</a>	<a href="http://www.nhfp.gov.cn/zhuz/pyl/200704/38838.shtml">http://www.nhfp.gov.cn/zhuz/pyl/200704/38838.shtml</a>
POL	Poland	<a href="https://www.dguv.de/ifa/...../limit-values-poland/index-2.jsp">https://www.dguv.de/ifa/...../limit-values-poland/index-2.jsp</a>	<a href="http://www.ciop.pl/">http://www.ciop.pl/</a>
PRT	Portugal	<a href="http://www.inem.pt/ciav">http://www.inem.pt/ciav</a>	
ROU	Romania	<a href="https://www.dguv.de/ifa/...../limit-values-romania/index-2.jsp">https://www.dguv.de/ifa/...../limit-values-romania/index-2.jsp</a>	<a href="http://www.mmuncii.ro/...../5114-11042018_modif_HG-1218_Ag_chimici.pdf">http://www.mmuncii.ro/...../5114-11042018_modif_HG-1218_Ag_chimici.pdf</a>
SGP	Singapore	<a href="https://www.dguv.de/ifa/...../limit-values-singapore/index-2.jsp">https://www.dguv.de/ifa/...../limit-values-singapore/index-2.jsp</a>	<a href="https://sso.agc.gov.sg/Act/WSHA2006">https://sso.agc.gov.sg/Act/WSHA2006</a>
SVK	Slovakia	<a href="http://www.ntic.sk/">http://www.ntic.sk/</a>	
SVN	Slovenia	<a href="http://www.uk.gov.si/">http://www.uk.gov.si/</a>	
KOR	South Korea	<a href="https://www.dguv.de/ifa/...../limit-values-south-korea/index-2.jsp">https://www.dguv.de/ifa/...../limit-values-south-korea/index-2.jsp</a>	<a href="http://www.kiha.kr/main/community_view.htm?uid=763&amp;tbm=gonggi&amp;page=3">http://www.kiha.kr/main/community_view.htm?uid=763&amp;tbm=gonggi&amp;page=3</a>
ESP	Spain	<a href="https://www.dguv.de/ifa/...../limit-values-spain/index-2.jsp">https://www.dguv.de/ifa/...../limit-values-spain/index-2.jsp</a>	<a href="https://www.insst.es/">https://www.insst.es/</a>
SWE	Sweden	<a href="https://www.dguv.de/ifa/...../limit-values-sweden/index-2.jsp">https://www.dguv.de/ifa/...../limit-values-sweden/index-2.jsp</a>	<a href="https://www.av.se/./hygieniska-gransvarden-afs-20181-foreskrifter/">https://www.av.se/./hygieniska-gransvarden-afs-20181-foreskrifter/</a>
CHE	Switzerland	<a href="https://www.dguv.de/ifa/...../limit-values-switzerland/index-2.jsp">https://www.dguv.de/ifa/...../limit-values-switzerland/index-2.jsp</a>	<a href="http://suissepro.org/">http://suissepro.org/</a>
		<a href="https://www.suva.ch/de-CH/.....">https://www.suva.ch/de-CH/.....</a>	
NLD	The Netherlands	<a href="https://www.dguv.de/ifa/...../limit-values-the-netherlands/index-2.jsp">https://www.dguv.de/ifa/...../limit-values-the-netherlands/index-2.jsp</a>	<a href="https://www.ser.nl/en">https://www.ser.nl/en</a>
		<a href="https://wetten.overheid.nl/BWBR0008587/2017-07-01#BijlageXIII">https://wetten.overheid.nl/BWBR0008587/2017-07-01#BijlageXIII</a>	
TUR	Turkey	<a href="https://www.dguv.de/ifa/...../limit-values-turkey/index-2.jsp">https://www.dguv.de/ifa/...../limit-values-turkey/index-2.jsp</a>	
USA	USA - NIOSH	<a href="https://www.dguv.de/ifa/...../limit-values-usa-niosh/index-2.jsp">https://www.dguv.de/ifa/...../limit-values-usa-niosh/index-2.jsp</a>	<a href="https://www.cdc.gov/niosh/">https://www.cdc.gov/niosh/</a>
USA	USA - OSHA	<a href="https://www.dguv.de/ifa/...../limit-values-usa-osh/index-2.jsp">https://www.dguv.de/ifa/...../limit-values-usa-osh/index-2.jsp</a>	<a href="http://www.osha.gov">www.osha.gov</a>
GBR	United Kingdom	<a href="https://www.dguv.de/ifa/...../limit-values-united-kingdom/index-2.jsp">https://www.dguv.de/ifa/...../limit-values-united-kingdom/index-2.jsp</a>	<a href="https://www.hse.gov.uk/research/hsl_pdf/2002/hsl02-23.pdf">https://www.hse.gov.uk/research/hsl_pdf/2002/hsl02-23.pdf</a>

<sup>(1)</sup> ISO3166-1 alpha-3 <sup>(2)</sup> NO ISO CODE

Mr&Mrs FRAGRANCE	MATERIAL SAFETY DATA SHEET		JEFF
	MAGIC VANILLA		
Current revision date: 04/07/2023	Current revision number: 00	Previous revision date: - / - / -	Previous revision number: - -

**16.6 Procedures used to derive classification under Regulation (EC)1272/2008 [CLP] in relation to mixtures**

Classification according to Regulation (EC) No. 1272/2008	Classification procedure
H412 Aquatic Chronic 3	Additivity theory - Annex I, section 4.1.3 - Hazardous to the aquatic environment

**16.7 Any appropriate training courses for workers in order to ensure the protection of human health and the environment**

- Training course on the management and interpretation of the SDS
- Training on the use of PPE

**More information**

Safety Data Sheet compliant with regulation (EU) n. 2020/878 of 18 June 2020

This document has been drawn up by a competent SDS technician who has received adequate training and is certified according to the reference practice UNI / PdR 60: 2019. Certificate issued by INTERTEK ITALIA S.p.A. Registration number: EPTAS2018-00225 exp. 25-Nov-2023

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END OF SAFETY DATA SHEET

Mr&Mrs  
FRAGRANCE

# MATERIAL SAFETY DATA SHEET

# JEFF

## MAGIC VANILLA

Current revision date: 04/07/2023

Current revision number: 00

Previous revision date: -/-/-

Previous revision number: - -