

Mr&Mrs FRAGRANCE	MATERIAL SAFETY DATA SHEET		JEFF
	LEMON & ORANGE		
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 : LEMON & ORANGE
UFI : J550-A09J-F00X-CC9S
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
 email competent person 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) : GHS07
Hazard Class and Notes Category Code(s) : Skin. Sens. 1, Eye Irrit. 2, Aquatic Chronic 3.
Hazard statement Code(s) : H317 - May cause an allergic skin reaction.
 H319 - Causes serious eye irritation
 H412 - Harmful to aquatic life with long lasting effects

2.1.2 Adverse Effects

The product, if brought into contact with the skin, can cause skin sensitization. if brought into contact with the eyes, causes considerable inflammation that can last for more than 24 hours. The product is dangerous for the environment as it is harmful to aquatic organisms with long lasting effects.

2.2 Label elements

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

Hazard pictogram(s) : GHS07



Signal Word Code(s) : WARNING
Hazard statement Code(s) : H317 - May cause an allergic skin reaction.
 H319 - Causes serious eye irritation
 H412 - Harmful to aquatic life with long lasting effects
Suppl. Hazard statement Code(s) : None

Precautionary statements

General

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

Prevention

P264 - Wash hands thoroughly after handling.

Response

P302 + P352 - IF ON SKIN: Wash with plenty of water and soap.
 P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention

Disposal

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

Contains: Geraniol, Benzyl salicylate, 3,7-dimethyloctan-3-ol, Limonene, Citral, Tetramethyl acetyloctahydronaphthalenes, Linalool, 4-tert-butylcyclohexyl acetate, Nerol, Linalyl acetate, Acetyl diisoamylene, Nopyl acetate, Trans-Rose ketone, 2,4-dimethyl-3-cyclohexene carboxaldehyde.

2.2.2 Additional regulations to be implemented on the label

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

Additional information: 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. Only insert into the air vents. Avoid contact with shiny or metallic surfaces.

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.

ISO 8317_Child-resistant packaging - Requirements and testing procedures for reclosable packages

EN 862_Child-resistant packaging - Requirements and testing procedures for non-reclosable packages for non-pharmaceutical products

Not applicable

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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

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.

Index number	EC/List n°.	CAS	REACH	International Chemical Identification	X= Conc. %
- - -	259-461-3	55066-48-3	01-2119969446-23	Phenylisohexanol / 3-methyl-5-phenylpentanol	2.00 < x < 2.50
Hazard Class and Category Code(s), Hazard Statement Code(s)			Classification	Specific Concentration limits, M-Factors, Acute Toxicity Estimates (ATE)	Notes
Acute Tox. 4 H302, STOT RE 2 H373			Supplementary Hazard Statement Code(s)	Pictograms, Signal Word Code(s)	
			--	GHS07, GHS08 - WARNING	--
Index number	EC/List n°.	CAS	REACH	International Chemical Identification	X= Conc. %
- - -	297-629-8	93685-81-5	01-2120752626-49	Hydrocarbons, C4, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated	2.00 < x < 2.50
Hazard Class and Category Code(s), Hazard Statement Code(s)			Classification	Specific Concentration limits, M-Factors, Acute Toxicity Estimates (ATE)	Notes
Flam. Liq. 3 H226, Asp. Tox. 1 H304, Aquatic Chronic 4 H413			Supplementary Hazard Statement Code(s)	Pictograms, Signal Word Code(s)	
			EUH066	GHS02; GHS08 - DANGER	--
Index number	EC/List n°.	CAS	REACH	International Chemical Identification	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	1.00 < x < 1.50
Hazard Class and Category Code(s), Hazard Statement Code(s)			Classification	Specific Concentration limits, M-Factors, Acute Toxicity Estimates (ATE)	Notes
Skin Irrit. 2 H315, Skin Sens. 1B H317, Eye Dam. 1 H318			Supplementary Hazard Statement Code(s)	Pictograms, Signal Word Code(s)	
			--	GHS05, GHS07 - DANGER	--
Index number	EC/List n°.	CAS	REACH	International Chemical Identification	X= Conc. %
- -	204-262-9	118-58-1	01-2119969442-31	Benzyl salicylate	0.85 < x < 0.95
Hazard Class and Category Code(s), Hazard Statement Code(s)			Classification	Specific Concentration limits, M-Factors, Acute Toxicity Estimates (ATE)	Notes
Eye Irrit. 2 H319, Skin Sens. 1B H317, Aquatic Chronic 3 H412			Supplementary Hazard Statement Code(s)	Pictograms, Signal Word Code(s)	
			--	GHS07 - WARNING	--
Index number	EC/List n°.	CAS	REACH	International Chemical Identification	X= Conc. %
- -	201-133-9	78-69-3	01-2119454788-21	Tetrahydrolinalool / 3,7-dimethyloctan-3-ol	0.85 < x < 0.95
Hazard Class and Category Code(s), Hazard Statement Code(s)			Classification	Specific Concentration limits, M-Factors, Acute Toxicity Estimates (ATE)	Notes
Skin Irrit. 2 H315, Skin Sens. 1B H317, Eye Irrit. 2 H319			Supplementary Hazard Statement Code(s)	Pictograms, Signal Word Code(s)	
			--	GHS07 - WARNING	--
Index number	EC/List n°.	CAS	REACH	International Chemical Identification	X= Conc. %
601-029-00-7	227-813-5	5989-27-5	01-2119529223-47	d-limonene / (R)-p-mentha-1,8-diene	0.70 < x < 0.80
Hazard Class and Category Code(s), Hazard Statement Code(s)			Classification	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			Supplementary Hazard Statement Code(s)	Pictograms, Signal Word Code(s)	
			--	GHS02, GHS07, GHS08, GHS09 - WARNING	M=1 C
Index number	EC/List n°.	CAS	REACH	International Chemical Identification	X= Conc. %
605-019-00-3	226-394-6	5392-40-5	01-2119462829-23	Citral / 3,7-Dimethylocta-2,6-dienal	0.60 < x < 0.70
Hazard Class and Category Code(s), Hazard Statement Code(s)			Classification	Specific Concentration limits, M-Factors, Acute Toxicity Estimates (ATE)	Notes
Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1 H317			Supplementary Hazard Statement Code(s)	Pictograms, Signal Word Code(s)	
			--	GHS07 - WARNING	--
Index number	EC/List n°.	CAS	REACH	International Chemical Identification	X= Conc. %
- - -	915-730-3	54464-57-2	01-2119489989-04	Tetramethyl acetyloctahydronaphthalenes	0.60 < x < 0.70
Hazard Class and Category Code(s), Hazard Statement Code(s)			Classification	Specific Concentration limits, M-Factors, Acute Toxicity Estimates (ATE)	Notes
Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 2 H411			Supplementary Hazard Statement Code(s)	Pictograms, Signal Word Code(s)	
			--	GHS07, GHS09 - WARNING	--
Index number	EC/List n°.	CAS	REACH	International Chemical Identification	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)	0.30 < x < 0.35
Hazard Class and Category Code(s), Hazard Statement Code(s)			Classification	Specific Concentration limits, M-Factors, Acute Toxicity Estimates (ATE)	Notes
Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 1 H410			Supplementary Hazard Statement Code(s)	Pictograms, Signal Word Code(s)	
			--	GHS07, GHS09 - WARNING	M=1
Index number	EC/List n°.	CAS	REACH	International Chemical Identification	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)	0.30 < x < 0.35
Hazard Class and Category Code(s), Hazard Statement Code(s)			Classification	Specific Concentration limits, M-Factors, Acute Toxicity Estimates (ATE)	Notes
Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 1 H410			Supplementary Hazard Statement Code(s)	Pictograms, Signal Word Code(s)	
			--	GHS07, GHS09 - WARNING	M=1
Index number	EC/List n°.	CAS	REACH	International Chemical Identification	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	0.30 < x < 0.35
Hazard Class and Category Code(s), Hazard Statement Code(s)			Classification	Specific Concentration limits, M-Factors, Acute Toxicity Estimates (ATE)	Notes
Skin Irrit. 2 H315, Skin Sens. 1B H317, Eye Irrit. 2 H319			Supplementary Hazard Statement Code(s)	Pictograms, Signal Word Code(s)	
			--	GHS07 - WARNING	--
Index number	EC/List n°.	CAS	REACH	International Chemical Identification	X= Conc. %
- -	250-954-9	32210-23-4	01-2119976286-24	4-tert-butylcyclohexyl acetate	0.25 < x < 0.30
Hazard Class and Category Code(s), Hazard Statement Code(s)			Classification	Specific Concentration limits, M-Factors, Acute Toxicity Estimates (ATE)	Notes
Skin Sens. 1B H317			Supplementary Hazard Statement Code(s)	Pictograms, Signal Word Code(s)	
			--	GHS07 - WARNING	--
Index number	EC/List n°.	CAS	REACH	International Chemical Identification	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)			Classification	Specific Concentration limits, M-Factors, Acute Toxicity Estimates (ATE)	Notes
Eye Dam. 1 H318, Skin Irrit. 2 H315, Skin Sens. 1B H317			Supplementary Hazard Statement Code(s)	Pictograms, Signal Word Code(s)	
			--	GHS07 - WARNING	--
Index number	EC/List n°.	CAS	REACH	International Chemical Identification	X= Conc. %
- - -	204-116-4	115-95-7	01-2119454789-19	Linalyl acetate	0.25 < x < 0.30
Hazard Class and Category Code(s), Hazard Statement Code(s)			Classification	Specific Concentration limits, M-Factors, Acute Toxicity Estimates (ATE)	Notes
Skin Irrit. 2 H315, Skin Sens. 1B H317, Eye Irrit. 2 H319			Supplementary Hazard Statement Code(s)	Pictograms, Signal Word Code(s)	
			--	GHS07 - WARNING	--

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Index number	EC/List n°.	CAS	REACH	International Chemical Identification	X= Conc. %
---	939-627-8	--	01-2119980043-42	Acetyl Diisoamylene	0.10 < x < 0.15
Hazard Class and Category Code(s), Hazard Statement Code(s)			Classification	Specific Concentration limits, M-Factors,	Notes
Skin Sens. 1B H317, Aquatic Chronic 2 H411			Supplementary Hazard Statement Code(s)	Pictograms, Signal Word Code(s)	Acute Toxicity Estimates (ATE)
			--	GHS02; GHS09 – WARNING	--
Index number	EC/List n°.	CAS	REACH	International Chemical Identification	X= Conc. %
---	204-891-9	128-51-8	--	Nopyl acetate	0.10 < x < 0.15
Hazard Class and Category Code(s), Hazard Statement Code(s)			Classification	Specific Concentration limits, M-Factors,	Notes
Eye Irrit. 2 H319, Skin Sens. 1 H317, Aquatic Chronic 2 H411			Supplementary Hazard Statement Code(s)	Pictograms, Signal Word Code(s)	Acute Toxicity Estimates (ATE)
			--	GHS07, GHS09 – WARNING	--
Index number	EC/List n°.	CAS	REACH	International Chemical Identification	X= Conc. %
---	246-430-4	24720-09-0	01-2120105799-47	(E)-1-(2,6,6-trimethyl-2-cyclohexen-1-yl)-2-buten-1-one	0.10 < x < 0.15
Hazard Class and Category Code(s), Hazard Statement Code(s)			Classification	Specific Concentration limits, M-Factors,	Notes
Acute Tox. 4 H302, Skin Sens. 1 H317, Aquatic Chronic 2 H411			Supplementary Hazard Statement Code(s)	Pictograms, Signal Word Code(s)	Acute Toxicity Estimates (ATE)
			--	GHS07, GHS09 – WARNING	--
Index number	EC/List n°.	CAS	REACH	International Chemical Identification	X= Conc. %
---	268-264-1	68039-49-6	--	2,4-dimethylcyclohex-3-ene-1-carbaldehyde	0.10 < x < 0.15
Hazard Class and Category Code(s), Hazard Statement Code(s)			Classification	Specific Concentration limits, M-Factors,	Notes
Skin Irrit. 2 H315, Skin Sens. 1 H317, Eye Irrit. 2, H319, Aquatic Chronic 2 H411			Supplementary Hazard Statement Code(s)	Pictograms, Signal Word Code(s)	Acute Toxicity Estimates (ATE)
			--	GHS07, GHS09 - DANGER	--

SECTION 4: First aid measures

4.1 Description of first aid measures

First aid instructions categorized according to relevant routes of exposure. It is advisable for those who provide first aid to wear the personal protective equipment deemed suitable for the conditions in which the intervention is to be carried out.

Inhalation

Given the specificity of the product and the small quantities of substances released, conditions such as to require first aid measures are not foreseen.

Skin

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

Eyes

Given the particular structure of the product, accidental contacts are unpredictable and mainly of traumatic and/or voluntary origin. If necessary, apply fresh compresses and, if the painful phenomena continue, contact the medical staff.

Ingestion

SEEK MEDICAL ATTENTION IMMEDIATELY.

4.2 Most important symptoms and effects, both acute and delayed

Inhalation

They are not known and there are no specific reports on symptoms and effects caused by the product.

Skin

They are not known and there are no specific reports on symptoms and effects caused by the product.

Eyes

Redness.

Ingestion

They are not known and there are no specific reports on symptoms and effects caused by the product.

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, CO₂, 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 that are potentially harmful to health may develop. If exposed to flame, it catches fire and continues to burn with a dimly lit flame even if removed from the heat source.

5.3 Advice for firefighters

Use protective clothing for the respiratory tract, eyes and skin. Water spray can be used to disperse vapors and protect people engaged in firefighting. 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 considerable quantities of product in the environments involved in the fire can be a source of risk in causing the re-ignition 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 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: No smoking. Use suitable personal protective equipment, see Section 8.

6.2 Environmental precautions

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

6.3 Methods and material for containment and cleaning up

6.3.1 Appropriate advice shall be provided on how to contain a spill

Keep dry.

6.3.2 Appropriate advice shall be provided on how to clean-up a spill

After collection, wash the affected area and materials with plenty of water and recover the resulting fluids.

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6.3.3 Any other information shall be provided relating to spills and releases, including advice on inappropriate containment or clean-up techniques

Hand over waste only to specialized companies

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 precautions for handling sensitizing chemical products, protecting themselves from any accidental contact. Do not smoke, eat or 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 the electrical components of machines, systems and electrical installations in general can give a sufficient guarantee of reducing the risk of fire.

How to control the effects of:

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

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

i) stabilisers	Nothing to report
ii) antioxidants	Nothing to report

Other advice including

i) ventilation requirements	Keep in cool and ventilated places.
ii) specific designs for storage rooms or vessels (including retention walls and ventilation)	Nothing to report
iii) quantity limits under storage conditions (if relevant)	Keep in cool and ventilated places.
iv) packaging compatibilities	Nothing to report
v) Storage class	Not applicable

7.3 Specific end use(s)

Consumer: Follow the instructions given on the label/box/information leaflets.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Related to the substances contained

Substance:	Phenylisohexanol / 3-methyl-5-phenylpentanol									
CAS:	55066-48-3									
GESTIS International Limit Values										
		Limit value - Eight hours				Limit value - Short term				
		ppm		mg/m³		ppm		mg/m³		
		--		--		--		--		
		Remarks								
		--								
Link DNEL value	https://echa.europa.eu/it/registration-dossier/-/registered-dossier/13902									
DNEL (Workers)					DNEL (Population)					
	Systemic		Local			Systemic		Local		
	Long term	Short term	Long term	Short term		Long term	Short term	Long term	Short term	
Inhalation	0.88 mg/m³	5.3 mg/m³	No hazard identified		Inhalation	0.21 mg/m³	1.3 mg/m³	No hazard identified		
Dermal	0.5 mg/kg bw/day	3 mg/kg bw/day	0.13 mg/cm²	No hazard identified	Dermal	0.25 mg/kg bw/day	1.5 mg/kg bw/day	0.065 mg/cm²	0.39 mg/cm²	
Oral	Not available		Not available		Oral	0.06 mg/kg bw/day	0.375 mg/kg bw/day	Not available		
Eyes	Not available		Low hazard (no threshold derived)		Eyes	Not available		Low hazard (no threshold derived)		
PNEC										
Freshwater	0.013 mg/L		Intermittent	0.13 mg/L	Marine water	0.001 mg/L				
STP	10 mg/L		Sediment (freshwater)	1.034 mg/kg sediment dw	Sediment (marine water)	0.103 mg/kg sediment dw				
Air	No hazard identified		Soil	0.199 mg/kg soil dw	Hazard for predators	10 mg/kg food				

Substance:	Hydrocarbons, C4, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated										
CAS:	93685-81-5										
GESTIS International Limit Values											
		Limit value – Eight hours				Limit value – Short term					
		ppm		mg/m³		ppm		mg/m³			
		--		--		--		--			
		Remarks									
		--									
Link DNEL value	https://echa.europa.eu/it/registration-dossier/-/registered-dossier/21760										
DNEL (Workers)					DNEL (Population)						
		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		Inhalation	No hazard identified			No hazard identified	

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Dermal	No hazard identified		No hazard identified		Dermal	No hazard identified	
Oral	Not available		Not available		Oral	No hazard identified	
Eyes	Not available		No hazard identified		Eyes	Not available	
PNEC							
Freshwater	No data available: testing technically not feasible		Intermittent	Not available		Marine water	
STP	No data available: testing technically not feasible		Sediment (freshwater)	No data available: testing technically not feasible		Sediment (marine water)	
Air	No hazard identified		Soil	No data available: testing technically not feasible		Hazard for predators	
Substance:	Geraniol						
CAS:	106-24-1						
GESTIS International Limit Values							
		Limit value - Eight hours		Limit value - Short term			
		ppm	mg/m³	ppm		mg/m³	
		--	--	--		--	
		Remarks					
		--					
Link ECHA: https://echa.europa.eu/it/registration-dossier/-/registered-dossier/14184							
DNEL (Workers)				DNEL (Population)			
	Systemic		Local			Systemic	
	Long term	Short term	Long term	Short term		Long term	Short term
Inhalation	11.83 mg/m³	No hazard identified	No hazard identified		Inhalation	3.5 mg/m³	No hazard identified
Dermal	4.2 mg/kg bw/day	No hazard identified	11 800 µg/cm²	Medium hazard (no threshold derived)	Dermal	2.5 mg/kg bw/day	No hazard identified
Oral	Not available		Not available		Oral	2 mg/kg bw/day	No hazard identified
Eyes	Not available		Medium hazard (no threshold derived)		Eyes	Not available	
PNEC							
Freshwater	0.011 mg/L	Intermittent	0.108 mg/L		Marine water	0.001 mg/L	
STP	0.7 mg/L	Sediment (freshwater)	0.115 mg/kg sediment dw		Sediment (marine water)	0.011 mg/kg sediment dw	
Air	No hazard identified	Soil	0.017 mg/kg soil dw		Hazard for predators	No potential to cause toxic effects if accumulated (in higher organisms) via the food chain	
Substance:	Benzyl salicylate						
CAS:	118-58-1						
GESTIS International Limit Values							
		Limit value - Eight hours		Limit value - Short term			
		ppm	mg/m³	ppm		mg/m³	
		--	--	--		--	
		Remarks					
		--					
Link DNEL value https://echa.europa.eu/it/registration-dossier/-/registered-dossier/16100							
DNEL (Workers)				DNEL (Population)			
	Systemic		Local			Systemic	
	Long term	Short term	Long term	Short term		Long term	Short term
Inhalation	7.8 mg/m³	No hazard identified	No hazard identified		Inhalation	1.37 mg/m³	No hazard identified
Dermal	2.21 mg/kg bw/day	No hazard identified	Medium hazard (no threshold derived)		Dermal	0.79 mg/kg bw/day	No hazard identified
Oral	Not available		Not available		Oral	0.79 mg/kg bw/day	No hazard identified
Eyes	Not available		Low hazard (no threshold derived)		Eyes	Not available	
PNEC							
Freshwater	0.001 mg/L	Intermittent	0.01 mg/L		Marine water	0 mg/L	
STP	10 mg/L	Sediment (freshwater)	0.583 mg/kg sediment dw		Sediment (marine water)	0.058 mg/kg sediment dw	
Air	No hazard identified	Soil	1.41 mg/kg soil dw		Hazard for predators	52.7 mg/kg food	
Substance:	Tetrahydrolinalool / 3,7-dimethyloctan-3-ol						
CAS:	78-69-3						
GESTIS International Limit Values							
		Limit value - Eight hours		Limit value - Short term			
		ppm	mg/m³	ppm		mg/m³	
		--	--	--		--	
		Remarks					
		--					
Link DNEL value https://echa.europa.eu/it/registration-dossier/-/registered-dossier/14146							
DNEL (Workers)				DNEL (Population)			
	Systemic		Local			Systemic	
	Long term	Short term	Long term	Short term		Long term	Short term
Inhalation	11.14 mg/m³	No hazard identified	No hazard identified		Inhalation	2.75 mg/m³	No hazard identified
Dermal	3.16 mg/kg bw/day	No hazard identified	190 µg/cm²	Low hazard (no threshold derived)	Dermal	1.58 mg/kg bw/day	No hazard identified
Oral	Not available		Not available		Oral	1.58 mg/kg bw/day	No hazard identified
Eyes	Not available		Low hazard (no threshold derived)		Eyes	Not available	
PNEC							
Freshwater	0.009 mg/L	Intermittent	0.089 mg/L		Marine water	0.001 mg/L	
STP	450 mg/L	Sediment (freshwater)	0.082 mg/kg sediment dw		Sediment (marine water)	0.008 mg/kg sediment dw	
Air	No hazard identified	Soil	0.011 mg/kg soil dw		Hazard for predators	No potential for bioaccumulation	
Substance:	d-limonene / (R)-p-mentha-1,8-diene						
CAS:	5989-27-5						
GESTIS International Limit Values							
		Limit value - Eight hours		Limit value - Short term			
		ppm	mg/m³	ppm		mg/m³	

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	LEMON & ORANGE								
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Finland		25	140	50 (1)	280 (1)				
Germany (AGS)		5 (1)	28 (1)	20 (1)(2)	110 (1)(2)				
Germany (DFG)		5 (1)	28 (1)	20 (1)(2)	112 (1)(2)				
Norway		25	140	- -	- -				
Spain		30 (1)	168 (1)	- -	- -				
Switzerland		7	40	14 (1)	80 (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							
https://echa.europa.eu/it/registration-dossier/-/registered-dossier/15256									
DNEL (Workers)				DNEL (Population)					
	Systemic		Local			Systemic		Local	
	Long term	Short term	Long term	Short term		Long term	Short term	Long term	Short term
Inhalation	66.7 mg/m³	No hazard identified	No hazard identified		Inhalation	16.6 mg/m³	No hazard identified	No hazard identified	
Dermal	9.5 mg/kg bw/day	No hazard identified	Medium hazard (no threshold derived)		Dermal	4.8 mg/kg bw/day	No hazard identified	No hazard identified	
Oral	Not available		Not available		Oral	Not available	4.8 mg/kg bw/day	No hazard identified	
Eyes	Not available		No hazard identified		Eyes	Not available		Not available	
PNEC									
	Freshwater	14 µg/L	Intermittent		Not available		Marine water	1.4 µg/L	
	STP	1.8 mg/L	Sediment (freshwater)		3.85 mg/kg sediment dw		Sediment (marine water)	0.385 mg/kg sediment dw	
	Air	No hazard identified	Soil		0.763 mg/kg soil dw		Hazard for predators	133 mg/kg food	
Substance:	Citral / 3,7-Dimethylocta-2,6-dienal								
CAS:	5392-40-5								
GESTIS International Limit Values									
	Limit value - Eight hours				Limit value - Short term				
	ppm		mg/m³		ppm		mg/m³		
Belgium	5 (1)(2)		32 (1)(2)		- -		- -		
Canada - Ontario	5 (1)		- -		- -		- -		
Ireland	5 (1)		- -		- -		- -		
Poland	- -		27		- -		54 (1)		
Spain	5 (1)		- -		- -		- -		
		Remarks							
Belgium		(1) Inhalable fraction and vapour (2) Additional indication "D" means that the absorption of the agent through the skin, mucous membranes or eyes is an important part of the total exposure. It can be the result of both direct contact and its presence in the air.							
Canada - Ontario		(1) Inhalable fraction and vapour							
Ireland		(1) Inhalable fraction and vapour							
Poland		(1) 15 minutes average value							
Spain		(1) Skin							
https://echa.europa.eu/it/registration-dossier/-/registered-dossier/13515									
DNEL (Workers)				DNEL (Population)					
	Systemic		Local			Systemic		Local	
	Long term	Short term	Long term	Short term		Long term	Short term	Long term	Short term
Inhalation	9 mg/m³	No hazard identified	Low hazard (no threshold derived)		Inhalation	2.7 mg/m³	No hazard identified	Low hazard (no threshold derived)	
Dermal	1.7 mg/kg bw/day	No hazard identified	140 µg/cm²	Low hazard (no threshold derived)	Dermal	1 mg/kg bw/day	No hazard identified	140 µg/cm²	Low hazard (no threshold derived)
Oral	Not available		Not available		Oral	0.6 mg/kg bw/day	No hazard identified	Not available	
Eyes	Not available		Low hazard (no threshold derived)		Eyes	Not available		Low hazard (no threshold derived)	
PNEC									
	Freshwater	0.007 mg/L	Intermittent		0.068 mg/L		Marine water	0.001 mg/L	
	STP	1.6 mg/L	Sediment (freshwater)		0.125 mg/kg sediment dw		Sediment (marine water)	0.013 mg/kg sediment dw	
	Air	No hazard identified	Soil		0.021 mg/kg soil dw		Hazard for predators	No potential for bioaccumulation	
Substance:	Tetramethyl acetyloctahydronaphthalenes								
CAS:	54464-57-2								
GESTIS International Limit Values									
	Limit value - Eight hours				Limit value - Short term				
	ppm		mg/m³		ppm		mg/m³		
	- -		- -		- -		- -		
		Remarks							
		- -							
https://echa.europa.eu/it/registration-dossier/-/registered-dossier/15069									
DNEL (Workers)				DNEL (Population)					
	Systemic		Local			Systemic		Local	
	Long term	Short term	Long term	Short term		Long term	Short term	Long term	Short term
Inhalation	30 mg/m³	no hazard identified	no hazard identified		Inhalation	9 mg/m³	no hazard identified	no hazard identified	
Dermal	28.7 mg/kg bw/day	no hazard identified	648 µg/cm²	low hazard (no threshold derived)	Dermal	17.2 mg/kg bw/day	no hazard identified	380 µg/cm²	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	4.4 µg/L	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	
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								

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GESTIS International Limit Values									
		Limit value - Eight hours			Limit value - Short term				
		ppm	mg/m³		ppm	mg/m³			
		--	--		--	--			
		Remarks							
		--							
https: - -									
DNEL (Workers)				DNEL (Population)					
	Systemic		Local			Systemic		Local	
	Long term	Short term	Long term	Short term		Long term	Short term	Long term	Short term
Inhalation	30 mg/m³	No hazard identified	No hazard identified		Inhalation	9 mg/m³	No hazard identified	No hazard identified	
Dermal	28.7 mg/kg bw/day	No hazard identified	648 µg/cm²	Low hazard (no threshold derived)	Dermal	17.2 mg/kg bw/day	No hazard identified	380 µg/cm²	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	4.4 µg/L		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	
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							
GESTIS International Limit Values									
		Limit value - Eight hours			Limit value - Short term				
		ppm	mg/m³		ppm	mg/m³			
		--	--		--	--			
		Remarks							
		--							
https: - -									
DNEL (Workers)				DNEL (Population)					
	Systemic		Local			Systemic		Local	
	Long term	Short term	Long term	Short term		Long term	Short term	Long term	Short term
Inhalation	30 mg/m³	No hazard identified	No hazard identified		Inhalation	9 mg/m³	No hazard identified	No hazard identified	
Dermal	28.7 mg/kg bw/day	No hazard identified	648 µg/cm²	Low hazard (no threshold derived)	Dermal	17.2 mg/kg bw/day	No hazard identified	380 µg/cm²	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	4.4 µg/L		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	
Substance:		Linalool							
CAS:		78-70-6							
GESTIS International Limit Values									
		Limit value - Eight hours			Limit value - Short term				
		ppm	mg/m³		ppm	mg/m³			
		--	--		--	--			
		Remarks							
		--							
https://echa.europa.eu/it/registration-dossier/-/registered-dossier/14501									
DNEL (Workers)				DNEL (Population)					
	Systemic		Local			Systemic		Local	
	Long term	Short term	Long term	Short term		Long term	Short term	Long term	Short term
Inhalation	24.58 mg/m³	No hazard identified	Low hazard (no threshold derived)		Inhalation	4.33 mg/m³	No hazard identified	Low hazard (no threshold derived)	
Dermal	3.5 mg/kg bw/day	No hazard identified	3 mg/cm²		Dermal	1.25 mg/kg bw/day	No hazard identified	1.5 mg/cm²	
Oral	Not available		Not available		Oral	2.49 mg/kg bw/day	No hazard identified	Not available	
Eyes	Not available		Low hazard (no threshold derived)		Eyes	Not available		Low hazard (no threshold derived)	
PNEC									
	Freshwater	0.2 mg/L		Intermittent	2 mg/L		Marine water	0.02 mg/L	
	STP	10 mg/L		Sediment (freshwater)	2.22 mg/kg sediment dw		Sediment (marine water)	0.222 mg/kg sediment dw	
	Air	Not available		Soil	0.327 mg/kg soil dw		Hazard for predators	7.8 mg/kg food	
Substance:		4-tert-butylcyclohexyl acetate							
CAS:		32210-23-4							
GESTIS International Limit Values									
		Limit value - Eight hours			Limit value - Short term				
		ppm	mg/m³		ppm	mg/m³			
		--	--		--	--			
		Remarks							
		--							
Link DNEL value		https://echa.europa.eu/it/registration-dossier/-/registered-dossier/15158							
DNEL (Workers)				DNEL (Population)					
	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		Inhalation	No hazard identified		No hazard identified	
Dermal	No hazard identified		Medium hazard (no threshold derived)		Dermal	No hazard identified		Medium hazard (no threshold derived)	
Oral	Not available		Not available		Oral	No hazard identified		Not available	
Eyes	Not available		No hazard identified		Eyes	Not available		No hazard identified	
PNEC									

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Freshwater		5.3 µg/L		Intermittent		53 µg/L	
STP		12.2 mg/L		Sediment (freshwater)		2.01 mg/kg sediment dw	
Air		No hazard identified		Soil		0.42 mg/kg soil dw	
						Marine water	
						12.2 mg/L	
						Sediment (marine water)	
						0.21 mg/kg sediment dw	
						Hazard for predators	
						66.67 mg/kg food	
Substance:		Nerol					
CAS:		106-25-2					
GESTIS International Limit Values							
		Limit value - Eight hours				Limit value - Short term	
		ppm		mg/m³		ppm	
		--		--		--	
		Remarks					
		--					
Link DNEL value		https://echa.europa.eu/it/registration-dossier/-/registered-dossier/10345					
DNEL (Workers)				DNEL (Population)			
		Systemic		Local			
		Long term		Short term		Systemic	
		Long term		Short term		Long term	
		Short term		Short term		Short term	
Inhalation		4.4 mg/m³		No hazard identified		No hazard identified	
Dermal		1.25 mg/kg bw/day		No hazard identified		No hazard identified	
Oral		Not available		Medium hazard (no threshold derived)		No hazard identified	
Eyes		Not available		Not available		Not available	
		Low hazard (no threshold derived)		Not available		Low hazard (no threshold derived)	
PNEC							
Freshwater		7.45 µg/L		Intermittent		74.5 µg/L	
STP		12.9 mg/L		Sediment (freshwater)		133 µg/kg sediment dw	
Air		No hazard identified		Soil		22.3 µg/kg soil dw	
						Marine water	
						0.745 µg/L	
						Sediment (marine water)	
						13.3 µg/kg sediment dw	
						Hazard for predators	
						No potential for bioaccumulation	
Substance:		Linalyl acetate					
CAS:		115-95-7					
GESTIS International Limit Values							
		Limit value - Eight hours				Limit value - Short term	
		ppm		mg/m³		ppm	
		--		--		--	
		Remarks					
		--					
https://echa.europa.eu/it/registration-dossier/-/registered-dossier/14484							
DNEL (Workers)				DNEL (Population)			
		Systemic		Local			
		Long term		Short term		Systemic	
		Long term		Short term		Long term	
		Short term		Short term		Short term	
Inhalation		2.75 mg/m³		No hazard identified		No hazard identified	
Dermal		2.5 mg/kg bw/day		No hazard identified		No hazard identified	
Oral		Not available		236.2 µg/cm²		236.2 µg/cm²	
Eyes		Not available		Not available		Not available	
		Low hazard (no threshold derived)		Not available		Low hazard (no threshold derived)	
PNEC							
Freshwater		0.011 mg/L		Intermittent		0.11 mg/L	
STP		10 mg/L		Sediment (freshwater)		0.609 mg/kg sediment dw	
Air		No hazard identified		Soil		0.115 mg/kg soil dw	
						Marine water	
						0.001 mg/L	
						Sediment (marine water)	
						0.061 mg/kg sediment dw	
						Hazard for predators	
						No potential for bioaccumulation	
Substance:		Acetyl Diisoamylene					
CAS:		-- EC: 939-627-8					
GESTIS International Limit Values							
		Limit value – Eight hours				Limit value – Short term	
		ppm		mg/m³		ppm	
		--		--		--	
		Remarks					
		--					
Link DNEL value		https://echa.europa.eu/it/registration-dossier/-/registered-dossier/13879					
DNEL (Workers)				DNEL (Population)			
		Systemic		Local			
		Long term		Short term		Systemic	
		Long term		Short term		Long term	
		Short term		Short term		Short term	
Inhalation		6 mg/m³		No hazard identified		No hazard identified	
Dermal		1.7 mg/kg bw/day		No hazard identified		No hazard identified	
Oral		Not available		3 600 µg/cm²		2 100 µg/cm²	
Eyes		Not available		No hazard identified		No hazard identified	
		No hazard identified		Not available		Not available	
		No hazard identified		Not available		No hazard identified	
PNEC							
Freshwater		4.8 µg/L		Intermittent		0.48 µg/L	
STP		22 mg/L		Sediment (freshwater)		0.062 mg/kg sediment dw	
Air		No hazard identified		Soil		0.121 mg/kg soil dw	
						Marine water	
						No potential to cause toxic effects if accumulated (in higher organisms) via the food chain	
Substance:		(E)-1-(2,6,6-trimethyl-2-cyclohexen-1-yl)-2-buten-1-one					
CAS:		24720-09-0					
GESTIS International Limit Values							
		Limit value - Eight hours				Limit value - Short term	
		ppm		mg/m³		ppm	
		--		--		--	
		Remarks					
		--					
Reference: https://echa.europa.eu/it/registration-dossier/-/registered-dossier/16823							
DNEL (Workers)				DNEL (Population)			
		Systemic		Local			
		Long term		Short term		Systemic	
		Long term		Short term		Long term	
		Short term		Short term		Short term	
Inhalation		2.74 mg/m³		No hazard identified		No hazard identified	
Dermal		0.78 mg/kg bw/day		No hazard identified		No hazard identified	
		Medium hazard (no threshold derived)		No hazard identified		No hazard identified	

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Oral		Not available		Not available	
Eyes		Not available		Not available	
PNEC		Freshwater		Marine water	
		STP		Sediment (marine water)	
		Air		Hazard for predators	

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 Personal Protective Equipment. In any company, however, the instructions given by the Head of the Prevention and Protection Service must be complied with, who will have assessed the risk deriving from all the products used in each working phase. Before choosing the PPE to wear, it is essential to know the risks associated with the work environment, the environmental conditions, the job of the wearer and after having consulted the instructions provided by the manufacturer. All PPE belonging to the third category must be delivered to operators only after adequate training.

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 categories: PROC19 - Manual activities involving hand contact

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				
 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	PROTECTION			
			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 THERE ARE NO PERSONAL PROTECTIVE EQUIPMENT PROVIDED

b) SKIN PROTECTION

i) Hand protection

PITTOGRAM		PPE		METHOD OF CHOOSING THE PPE			
 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.	CHEMICAL PROTECTION					
		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					
			LATEX	NEOPRENE	NITRILE	PVC	
		Highlights	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 evaluate the choice of PPE to be used based on the duties.

USE WATERPROOF GLOVES

ii) other

PITTOGRAM	PPE	METHOD OF CHOOSING THE PPE				
 Work 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 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-	DANGER	Full coverage garment		Partial coverage garment	
			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				
		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				

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		coverage protective clothing, it is recommended that all operators carry out the "seven movements" test. Standard EN 13688 Protective clothing - General requirements 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.

NO PERSONAL PROTECTIVE EQUIPMENT IS REQUIRED IN NORMAL USE

c) RESPIRATORY PROTECTION

PITTOGRAM	PPE	METHOD OF CHOOSING THE PPE				
 RPD (Respiratory protective devices)	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 O₂ 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. 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.	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
		FACTORS TO CONSIDER	REASON	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) Filter capacity in relation to exposure time	Facial Filter FFP1 Half mask + P1	4	4		
		Facial Filter FFP2 Half mask + P2	12	10		
		Facial Filter FFP3 Half mask + P3	50	30		
Visibility	Reduction of protection	Full face + P1	5	4		
Freedom of movement	Reduction of weight and discomfort	Full face + P2	20	15		
Facial anatomy	Mask adequacy	Full face + P3	1000	400		
Environmental conditions						

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.

NO PERSONAL PROTECTIVE EQUIPMENT IS REQUIRED IN NORMAL USE

d) THERMAL HAZARDS

PITTOGRAM	PPE	OBSERVATIONS
 Hot/Cold	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.	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. 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.

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 SUGNIFICANT 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 colours	--
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	Applicable to gases, liquids and solids
g)	Lower and upper explosion limit	Not applicable	Not applicable to solids
h)	Flash point	Not applicable	Does not apply to gases, aerosols and solids

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i)	Auto-ignition temperature	Not applicable	Only applicable to gases and liquids	
j)	Decomposition temperature	Not applicable	Only applicable to self-reactive substances and mixtures, organic peroxides and other substances and mixtures which may decompose.	
k)	pH	Not applicable	The mixture is not soluble in water	
l)	Kinematic viscosity	Not applicable	Applies to liquids only	
m)	Solubility	Insoluble in water, partially soluble in alcohol	--	
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	According to the REACH regulation, the study must not be conducted if the melting point is above 300°C (Annex VII, column 2 adaptation).	
p)	Density and/or relative density	Not applicable	only applies to liquids and solids.	
q)	Relative vapour density	Not applicable	only applies to gases and liquids.	
r)	Particle characteristics	Not relevant. Non-particulate blend	applies only to solids	
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				
a)	mechanical sensitivity	Not applicable		
b)	self-accelerating polymerisation temperature	Not applicable		
c)	formation of explosible dust/air mixtures	Not applicable		
d)	acid/alkaline reserve	Not applicable		
e)	evaporation rate	Not determinated		
f)	miscibility	Not miscible with water		
g)	conductivity	Not applicable		
h)	corrosiveness	Not applicable		
i)	gas group	Not applicable		
j)	redox potential	Not applicable		
k)	radical formation potential	Not applicable		
l)	photocatalytic properties	Not applicable		
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 other 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. Due to thermal decomposition, fumes harmful to health are released.				

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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	: In contact with the eyes, it causes significant irritation that can last for more than 24 h.
d)	respiratory or skin sensitisation	: If brought into contact with the skin, it may cause skin sensitization.
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.

Specific toxicological information for the substances contained (if available)

Substance:	Phenylisohexanol / 3-methyl-5-phenylpentanol		
CAS:	55066-48-3		
	ORAL	INHALATION	DERMAL
	Rat LD50: 1850 mg/kg bw	--	Rat LD50: 3100 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.			
Substance:	Hydrocarbons, C4, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated		
CAS:	93685-81-5		
	ORAL	INHALATION	DERMAL
	Rat LD50: 5000 mg/kg bw	Rat LC50: 5000 mg/m³ air	Rabbit LD50: 2200 mg/kg bw
			NOTES
			--
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.			
Substance:	Geraniol		
CAS:	106-24-1		
	ORAL	INHALATION	DERMAL
	Rat LD50: 3600 mg/kg bw	--	Rabbit LD50: > 5000 mg/kg bw
			NOTES
			--
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.			
Substance:	Benzyl salicylate		
CAS:	118-58-1		
	ORAL	INHALATION	DERMAL
	Rat LD50: >3000 mg/kg bw	--	Rat LD50: >2000 mg/kg bw
			NOTES
			--
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.			
Substance:	Tetrahydrolinalool / 3,7-dimethyloctan-3-ol		
CAS:	78-69-3		
	ORAL	INHALATION	DERMAL
	Rat LD50: 4600 mg/kg bw	--	Rabbit LD50: >5000 mg/kg bw
			NOTES
			--
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.			
Substance:	d-Limonene		
CAS:	5989-27-5		
	ORAL	INHALATION	DERMAL
	Rat LD50: > 2000 mg/kg bw	--	Rabbit LD50: 5000 mg/kg bw
			NOTES
			--
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, skin, eye, ingestion		
Inhalation risk	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.		
Effects of short-term exposure	The substance is irritating to the skin. The substance is mildly irritating to the eyes.		
Effects of long-term or repeated exposure	Repeated or prolonged contact may cause skin sensitization.		
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	--		
Substance:	Citral / 3,7-Dimethylocta-2,6-dienal		
CAS:	5392-40-5		
	ORAL	INHALATION	DERMAL
	Rat LD50: 6800 mg/kg bw	--	Rat LD50: 2000 mg/kg bw
			NOTES
			--
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	No indication can be given of the rate at which a harmful concentration of the substance in air is reached by evaporation at 20 µc.		
Effects of short-term exposure	The substance is irritating to the skin		
Effects of long-term or repeated exposure	Repeated or prolonged contact may cause skin sensitisation.		
SYMPTOMS BY SPECIFIC ROUTE OF EXPOSURE			
Inhalation	Cough		
Skin	Redness		
Eyes	--		
Ingestion	--		
Notes	Citrale is a mixture of two geometric isomers, geranial (trans confirmation, about 55-70%) and neral (cis confirmation, 35-45%).		
Substance:	Tetramethyl acetyloctahydronaphthalenes		
CAS:	54464-57-2		
	ORAL	INHALATION	DERMAL
	Rat LD50: 5000 mg/kg bw	--	Rat LD50: 5000 mg/kg bw
			NOTES
			--
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.			

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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
Rat LD50: > 5000 mg/kg bw		--		Rat 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.				
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
Rat LD50: > 5000 mg/kg bw		--		Rat 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.				
Substance: Linalool				
CAS: 78-70-6				
ORAL		INHALATION		DERMAL
Mouse LD50: 2 200 mg/kg bw		MOLC50: > 3.2 mg/L (3200 mg/m³)		Rabbit LD50: 5 610 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		The substance can be absorbed into the body by inhalation of its aerosol and by ingestion		
Inhalation risk		No indication can be given about the rate in which a harmful concentration of the substance in the air is reached on evaporation at 20°C.		
Effects of short-term exposure		The substance is irritating to the eyes and the skin.		
Effects of long-term or repeated exposure		The substance may have effects on the liver.		
SYMPTOMS BY SPECIFIC ROUTE OF EXPOSURE				
Inhalation	--			
Skin	Redness. Ache.			
Eyes	Redness. Ache.			
Ingestion	--			
Notes	:			
Substance: 4-tert-butylcyclohexyl acetate				
CAS: 32210-23-4				
ORAL		INHALATION		DERMAL
Rat LD50: 3370 mg/kg bw		--		Rabbit LD50: > 4680 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.				
Substance: Nerol				
CAS: 106-25-2				
ORAL		INHALATION		DERMAL
Rat LD50: 4500 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.				
Substance: Linalyl acetate				
CAS: 115-95-7				
ORAL		INHALATION		DERMAL
Rat LD50: > 9000 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		Skin absorption.		
Inhalation risk		No indication can be given about the rate in which a harmful concentration of the substance in the air is reached on evaporation at 20°C.		
Effects of short-term exposure		The substance is mildly irritating to the eyes.		
Effects of long-term or repeated exposure		--		
SYMPTOMS BY SPECIFIC ROUTE OF EXPOSURE				
Inhalation	--			
Skin	--			
Eyes	Redness.			
Ingestion	--			
Notes	:			
Substance: Acetyl Diisoamylene				
CAS: -- EC: 939-627-8				
ORAL		INHALATION		DERMAL
Rat LD50: 2350 mg/kg bw		--		Rat 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.				
Substance: (E)-1-(2,6,6-trimethyl-2-cyclohexen-1-yl)-2-buten-1-one				
CAS: 24720-09-0				
ORAL		INHALATION		DERMAL
Rat LD50: 1670 mg/kg bw		--		Rat LD50: 2900 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.				

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 life with long lasting effects.
Use according to good working practices, avoiding to disperse the product in the environment.

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Ecotoxicological information specific to the substances contained							
Substance:		Phenylisohexanol / 3-methyl-5-phenylpentanol					
CAS:		55066-48-3					
LC50 – fish		96h - 13.3 mg/L		Species :		Danio rerio	
EC50 – aquatic invertebrates		48h - 13 mg/L		Species :		Daphnia Magna	
ERL50 - algae and cyanobacteria		72h - 16 mg/L		Species :		Pseudokirchneriella supcapitata	
NOEC Cronica fish		--		Species :		--	
NOEC Cronica aquatic invertebrates		--		Species :		--	
NOErL Cronic algae and cyanobacteria		72h - 6.25 mg/L		Specie :		Pseudokirchneriella supcapitata	
Guideline :				Guideline :		OECD203	
Guideline :				Guideline :		OECD202	
Guideline :				Guideline :		OECD201	
Guideline :				Guideline :		--	
Guideline :				Guideline :		--	
Guideline :				Guideline :		OECD201	
Substance:		Hydrocarbons, C4, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated					
CAS:		93685-81-5					
LL50 – fish		96h: >100 mg/L		Species		Danio rerio	
EL50 – aquatic invertebrates		48h: >100 mg/L		Species		Daphnia Magna	
EL50 - algae and cyanobacteria		72h: >100 mg/L		Species		Raphidocelis subcapitata	
NOEC Cronica fish		--		Species		--	
NOEC Cronica aquatic invertebrates		--		Species		--	
NOErL Cronic algae and cyanobacteria		72h: >100 mg/L		Species		Raphidocelis subcapitata	
Guideline				Guideline		OECD203	
Guideline				Guideline		OECD202	
Guideline				Guideline		OECD201	
Guideline				Guideline		--	
Guideline				Guideline		--	
Guideline				Guideline		OECD201	
Substance:		Geraniol					
CAS:		106-24-1					
LC50 – fish		96h: 22 mg/L		Species		Brachydanio rerio	
EC50 – aquatic invertebrates		24h: 1.19 mg/L		Species		Daphnia magna	
ERL50 - algae and cyanobacteria		72h-0.82 mg/L		Species		Desmodesmus subspicatus	
NOEC Cronica fish		--		Species		--	
NOEC Cronica aquatic invertebrates		--		Species		--	
NOErL Cronic algae and cyanobacteria		--		Species		--	
Guideline				Guideline		DIN 38 412, parte L15	
Guideline				Guideline		Direttiva UE 79/831 / CEE, Allegato V, parte C	
Guideline				Guideline		Algae inhibition test supported by the UBA	
Guideline				Guideline		--	
Guideline				Guideline		--	
Guideline				Guideline		--	
Substance:		Benzyl salicylate					
CAS:		118-58-1					
LC50 – fish		96h: 1.03 mg/L		Species :		Danio rerio	
EC50 – aquatic invertebrates		48h: 1.16 mg/L		Species :		Daphnia Magna	
ERL50 - algae and cyanobacteria		72h: 1.29 mg/L		Species :		Pseudokirchneriella subcapitata	
NOEC Cronica fish		--		Species :		--	
NOEC Cronica aquatic invertebrates		--		Species :		--	
NOErL Cronic algae and cyanobacteria		72h: 0.502 mg/L		Species :		Pseudokirchneriella subcapitata	
Guideline :				Guideline :		EU Method C.1	
Guideline :				Guideline :		OECD202	
Guideline :				Guideline :		OECD201	
Guideline :				Guideline :		--	
Guideline :				Guideline :		--	
Guideline :				Guideline :		OECD201	
Substance:		Tetrahydrolinalool / 3,7-dimethyloctan-3-ol					
CAS:		78-69-3					
LC50 – fish		96h: 22 mg/L		Species		Brachydanio rerio	
EC50 – aquatic invertebrates		48h: 27 mg/L		Species		Daphnia Magna	
ERL50 - algae and cyanobacteria		48h: 14.2 mg/L		Species		Pseudokirchneriella subcapitata	
NOEC Cronica fish		--		Species		--	
NOEC Cronica aquatic invertebrates		--		Species		--	
NOErL Cronic algae and cyanobacteria		--		Species		--	
Guideline				Guideline		OECD 203	
Guideline				Guideline		OECD 202	
Guideline				Guideline		OECD 201	
Guideline				Guideline		--	
Guideline				Guideline		--	
Guideline				Guideline		--	
Substance:		d-limonene / (R)-p-mentha-1,8-diene					
CAS:		5989-27-5					
LC50 – fish		96h: < 1 mg/L		Species		Pimephales promelas	
EC50 – aquatic invertebrates		48h: 0.307 mg/L		Species		Daphnia magna	
ERL50 - algae and cyanobacteria		72h: 0.32 mg/L		Species		Pseudokirchneriella subcapitata	
NOEC Cronica fish		--		Species		--	
NOEC Cronica aquatic invertebrates		--		Species		--	
NOErL Cronic algae and cyanobacteria		72h: 0.174 mg/L		Species		Pseudokirchneriella subcapitata	
Guideline				Guideline		OECD 203	
Guideline				Guideline		OECD 202	
Guideline				Guideline		OECD 201	
Guideline				Guideline		--	
Guideline				Guideline		--	
Guideline				Guideline		OECD 201	
Substance:		Citral / 3,7-Dimethylocta-2,6-dienal					
CAS:		5392-40-5					
LC50 – fish		96h: 0.803 mg/l		Species		Oncorhynchus mykiss	
EC50 – aquatic invertebrates		48h: 0.6 mg/l		Species		Daphnia magna	
EC50 - aquatic algae and cyanobacteria		72h: 0.4 mg/l		Species		Desmodesmus subspicatus	
NOEC chronic fish		--		Species		--	
NOEC chronic invertebrates		--		Species		--	
NOEC chronic algae and cyanobacteria		72h: 0.26 mg/l		Species		Desmodesmus subspicatus	
Guidelines				Guidelines		OECD 203	
Guidelines				Guidelines		OECD 202	
Guidelines				Guidelines		OECD 201	
Guidelines				Guidelines		--	
Guidelines				Guidelines		--	
Guidelines				Guidelines		OECD 201	
Substance:		Tetramethyl acetyloctahydronaphthalenes					
CAS:		54464-57-2					
LC50 – fish		96h: 1.3 mg/L		Species		Lepomis macrochirus	
EC50 – aquatic invertebrates		48h: 1.38 mg/L		Species		Daphnia magna	
EC50 - aquatic algae and cyanobacteria		72h: > 2.6 mg/L		Species		--	
NOEC chronic fish		30d: 0.54 mg/L		Species		Zebra fish	
NOEC chronic invertebrates		21d: 0.044 mg/L		Species		Daphnia magna	
NOEC chronic algae and cyanobacteria		72h: > 2.6 mg/L		Species		Scenedesmus subspicatus	
Guidelines				Guidelines		OECD 203	
Guidelines				Guidelines		OECD 202	
Guidelines				Guidelines		OECD 201	
Guidelines				Guidelines		OECD 210	
Guidelines				Guidelines		OECD 211	
Guidelines				Guidelines		OECD 201	
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					
LC50 – fish		96h: 0.563 mg/l		Species :		Lepomis macrochirus	
EC50 – aquatic invertebrates		48h: 1.38 mg/l		Species :		Daphnia magna	
EC50 - aquatic algae and cyanobacteria		72h: > 2.6 mg/l		Species :		Scenedesmus subspicatus	
NOEC chronic fish		--		Species :		--	
NOEC chronic invertebrates		--		Species :		--	
NOEC chronic algae and cyanobacteria		72h: ≥ 2.6 mg/l		Species :		Scenedesmus subspicatus	
Guidelines				Guidelines		OECD 203	
Guidelines				Guidelines		OECD guideline 202	
Guidelines				Guidelines		OECD guideline 201	
Guidelines				Guidelines		--	
Guidelines				Guidelines		--	
Guidelines				Guidelines		OECD guideline 201	

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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					
LC50 – fish		96h: 0.563 mg/l	Species	: Lepomis macrochirus	Guidelines	: OECD 203	
EC50 – aquatic invertebrates		48h: 1.38 mg/l	Species	: Daphnia magna	Guidelines	: OECD guideline 202	
EC50 - aquatic algae and cyanobacteria		72h: > 2.6 mg/l	Species	: Scenedesmus subspicatus	Guidelines	: OECD guideline 201	
NOEC chronic fish		--	Species	: --	Guidelines	: --	
NOEC chronic invertebrates		--	Species	: --	Guidelines	: --	
NOEC chronic algae and cyanobacteria		72h: ≥ 2.6 mg/l	Species	: Scenedesmus subspicatus	Guidelines	: OECD guideline 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 Cronic 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:		4-tert-butylcyclohexyl acetate					
CAS:		32210-23-4					
LC50 – fish		96h: 8.6 mg/L	Species	Cyprinus carpio	Guidelines	OECD203	
EC50 – aquatic invertebrates		48h: 5.3 mg/L	Species	Daphnia Magna	Guidelines	OECD202	
EC50 - aquatic algae and cyanobacteria		72h: 22 mg/L	Species	Desmodesmus subspicatus	Guidelines	OECD201	
NOEC chronic fish		--	Species	--	Guidelines	--	
NOEC chronic invertebrates		--	Species	--	Guidelines	--	
NOEC chronic algae and cyanobacteria		72h: 6.8 mg/L	Species	Desmodesmus subspicatus	Guidelines	OECD201	
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:		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:		Acetyl Diisoamylene					
CAS:		-- EC: 939-627-8					
LC50 – fish		96h: 4.8 mg/L	Species	Cyprinus carpio	Guideline	OECD203	
EC50 – aquatic invertebrates		48h: 6.1 mg/L	Species	Daphnia Magna	Guideline	OECD202	
ERL50 - algae and cyanobacteria		72h: 21 mg/L	Species	Desmodesmus subspicatus	Guideline	OECD201	
NOEC Cronica fish		--	Species	--	Guideline	--	
NOEC Cronica aquatic invertebrates		--	Species	--	Guideline	--	
NOErL Cronic algae and cyanobacteria		72h: 12 mg/L	Species	Desmodesmus subspicatus	Guideline	OECD201	
Substance:		(E)-1-(2,6,6-trimethyl-2-cyclohexen-1-yl)-2-buten-1-one					
CAS:		24720-09-0					
LC50 – fish		96h: 1.09 mg/L	Species	Oryzias latipes	Guideline	JIS K 0102-1998-71	
EC50 – aquatic invertebrates		48h: 2.37 mg/L	Species	Daphnia magna	Guideline	OECD202	
EC50 - algae and cyanobacteria		72h: 5 mg/L	Species	Algae spp.	Guideline	OECD201	
NOEC Cronica fish		--	Species	--	Guideline	--	
NOEC Cronica aquatic invertebrates		--	Species	--	Guideline	--	
NOEC Cronic algae and cyanobacteria		--	Species	--	Guideline	--	
12.2 Persistence and degradability							
Data not available for the mixture.							
Specific biodegradation information for the substances contained							
Substance:		Phenylisohexanol / 3-methyl-5-phenylpentanol					
CAS:		55066-48-3					
Biodegradation in water		Readily biodegradable		Test time		28d	
Substance:		Hydrocarbons, C4, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated					
CAS:		93685-81-5					
Biodegradation in water		Readily biodegradable		Test time		--	
Substance:		Geraniol					
CAS:		106-24-1					
Biodegradation in water		Readily biodegradable		Test time		--	
Substance:		Benzyl salicylate					
CAS:		118-58-1					
Biodegradation in water		Readily biodegradable		Test time		28d	

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Substance:	Tetrahydrolinalool / 3,7-dimethyloctan-3-ol				
CAS:	78-69-3				
Biodegradation in water		Readily biodegradable		Test time	28d
Substance:	d-limonene / (R)-p-mentha-1,8-diene				
CAS:	5989-27-5				
Biodegradation in water		Readily biodegradable		Test time	28 d
Substance:	Citral / 3,7-Dimethylocta-2,6-dienal				
CAS:	5392-40-5				
Biodegradation in water		Readily biodegradable		Test time	28d
Substance:	Tetramethyl acetyloctahydronaphthalenes				
CAS:	54464-57-2				
Biodegradation in water		Not biodegradable		Test time	42d
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				
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
Substance:	Linalool				
CAS:	78-70-6				
Biodegradation in water		Readily biodegradable		Test time	28d
Substance:	4-tert-butylcyclohexyl acetate				
CAS:	32210-23-4				
Biodegradation in water		Readily biodegradable		Test time	28d
Substance:	Nerol				
CAS:	106-25-2				
Biodegradation in water		Readily biodegradable		Test time	28d
Substance:	Linalyl acetate				
CAS:	115-95-7				
Biodegradation in water		Readily biodegradable		Test time	28d
Substance:	Acetyl Diisoamylene				
CAS:	- - EC: 939-627-8				
Biodegradation in water		Not biodegradable		Test time	28d
Substance:	(E)-1-(2,6,6-trimethyl-2-cyclohexen-1-yl)-2-buten-1-one				
CAS:	24720-09-0				
Biodegradation in water:		Inherently biodegradable		Test time	: - -
12.3 Bioaccumulative potential					
Data not available for the mixture.					
Bioaccumulation information specific to the substances contained					
Substance:	Phenylisohexanol / 3-methyl-5-phenylpentanol				
CAS:	55066-48-3				
Partition coefficient: n-octanol / water		:	Log Kow (Log Pow): 2.7 a 30°C		
BCF		:	The test was considered inappropriate because the substance has a low potential to cross biological membranes (measured log Kow 2.7). In addition, it is known that the substance mineralises rapidly in the environment.		
Substance:	Hydrocarbons, C4, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated				
CAS:	93685-81-5				
Partition coefficient: n-octanol/water		log Pow ≥ 5.6 - ≤ 6.65 at 20°C			
BCF		Not available			
Substance:	Geraniol				
CAS:	106-24-1				
Partition coefficient: n-octanol/water		Log Kow (Log Pow): 2.6 a 25 °C			
BCF		The study should not be conducted because the substance has low bioaccumulation potential based on log Kow <= 3			
Substance:	Benzyl salicylate				
CAS:	118-58-1				
Partition coefficient : n-octanol/water		Log Kow (Log Pow): 4 a 35°C			
BCF		311 L/kg ww			
Substance:	Tetrahydrolinalool / 3,7-dimethyloctan-3-ol				
CAS:	78-69-3				
Partition coefficient: n-octanol / water		Log Kow (Log Pow): 3.3 a 20°C			
BCF		99.87 L/kg ww			
Substance:	d-limonene / (R)-p-mentha-1,8-diene				
CAS:	5989-27-5				
Partition coefficient: n-octanol / water		Log Kow (Log Pow): 4.38 a 25°C			
BCF		690.1 L/kg ww			
Substance:	Citral / 3,7-Dimethylocta-2,6-dienal				
CAS:	5392-40-5				
Partition coefficient: n-octanol / water		2.76 a 25°C			
BCF		In accordance with column 2 of Annex IX to the REACH Regulation, testing for this endpoint is not scientifically necessary and should not be conducted because the test chemical has low bioaccumulation potential based on logKow 3			

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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:	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		
Substance:	Linalool			
CAS:	78-70-6			
Partition coefficient: octanol/water		Log Kow (Log Pow): - 2.9 a 20 °C		
BCF		The study should not be conducted because the substance has low bioaccumulation potential based on log Kow <=3		
Substance:	4-tert-butylcyclohexyl acetate			
CAS:	32210-23-4			
Partition coefficient: n-octanol / water		Log Kow (Log Pow): 4.8 a 25°C		
BCF		334.6 L/kg w/w		
Substance:	Nerol			
CAS:	106-25-2			
Partition coefficient: n-octanol/water		Log Kow (Log Pow): 2.76 a 30°C		
BCF		Based on the log Kow result, nerol shows low bioaccumulation potential.		
Substance:	Linalyl acetate			
CAS:	115-95-7			
Partition coefficient: n-octanol / water		Log Kow (Log Pow): - 3.9 a 25 °C		
BCF		174 L/kg w/w		
Substance:	Acetyl Diisoamylene			
CAS:	- - EC: 939-627-8			
Partition coefficient: n-octanol/water		Log Kow (Log Pow): 4.44 at 25°C		
BCF		1 910 L/kg ww		
Substance:	(E)-1-(2,6,6-trimethyl-2-cyclohexen-1-yl)-2-buten-1-one			
CAS:	24720-09-0			
Partition coefficient: octanol/water		Log Kow (Log Pow): 3.66 at 25°C		
BCF		The substance is not considered bioaccumulative		
12.4 Mobility in soil				
Data not available for the mixture.				
Mobility information in soil specific to the substances contained				
Substance:	Phenylisohexanol / 3-methyl-5-phenylpentanol			
CAS:	55066-48-3			
Koc a 20 °C: 759 [Log Koc: 2.88]				
Substance:	Hydrocarbons, C4, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated			
CAS:	93685-81-5			
The standard tests for this endpoint are intended for individual substances and are not appropriate for these complex substances.				
Substance:	Geraniol			
CAS:	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.				
Substance:	Benzyl salicylate			
CAS:	118-58-1			
Koc at 20 °C: 5 623 L/kg [log Koc = 3.75]				
Substance:	Tetrahydrolinalool / 3,7-dimethyloctan-3-ol			
CAS:	78-69-3			
According to the log Koc calculated for the substance of 1,75 (Koc =56,3) no adsorption of the substance on soil particles is likely (SRC PCKOCWIN v1.66, 2007).				
Substance:	d-limonene / (R)-p-mentha-1,8-diene			
CAS:	5989-27-5			
Log Koc: 3.383 (Koc: 2413 L/kg a 20°C)				
Substance:	Citral / 3,7-Dimethylocta-2,6-dienal			
CAS:	5392-40-5			
Adsorption to solid soil phase is not expected.				
Substance:	Tetramethyl acetyloctahydronaphthalenes			
CAS:	54464-57-2			
Koc at 20°C: 12589 [Log Koc: 4.12]				
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			
Koc at 20 °C: 12 589 [LogKoc: 4.12]				
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			
Koc at 20 °C: 12 589 [LogKoc: 4.12]				

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Substance:	Linalool
CAS:	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.	
Substance:	4-tert-butylcyclohexyl acetate
CAS:	32210-23-4
Koc at 20 °C: 3 923	
Substance:	Nerol
CAS:	106-25-2
Koc at 20 °C: 143 (LogKoc: 2.155)	
Substance:	Linalyl acetate
CAS:	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.	
Substance:	Acetyl Diisoamylene
CAS:	- - EC: 939-627-8
Koc at 20 °C: 1 259 [LogKoc: 3.1]	
Substance:	(E)-1-(2,6,6-trimethyl-2-cyclohexen-1-yl)-2-buten-1-one
CAS:	24720-09-0
Koc at 20°C = 941.1 L/Kg [log Koc = 2.97]	

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):	No hazard characteristics identified
RECOVERY OPERATIONS (Directive 2008/98 / EC):	R 13 Storage of waste pending any of the operations numbered R 1 to R 12
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 - plastic

Methods for handling any contaminated packaging:

DANGER FEATURES (Directive 2008/98 / EC):	No hazard characteristics identified
RECOVERY OPERATIONS (Directive 2008/98 / EC):	R 13 Storage of waste pending any of the operations numbered R 1 to R 12
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

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 regulations on the transport of dangerous goods: 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		
14.3 Transport hazard class(es)	Not applicable		
14.4 Packing group	Not applicable		
14.5 Environmental hazards	Not applicable		
14.6 Special precautions for user	Not applicable		
14.7 Maritime transport in bulk according to IMO instruments	Not applicable		

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.

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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 2010/75/EU of the European Parliament and of the Council of 24 November 2010 on industrial emissions (integrated pollution prevention and control)

Directive 2004/42/CE of the European Parliament and of the Council of 21 April 2004 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 1999/13/EC

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

APVR	Respiratory protective equipment	FPO	Operational protection factor
ATE	Acute Toxicity Estimates	GHS	Globally Harmonized System
BCF	Bioconcentration Factor	HP	Hazardous Properties
CAS	Chemical abstract service	IMO	International Maritime Organization
CE	European Community	ISO	International Standard Organization
CLP	Classification, Labelling and Packaging	LC50	Median lethal concentration
COV	Volatile Organic Compounds	LD50	Median lethal dose
DNEL	Derived No Effect Level	N.A.S.	Not otherwise specified
DPI	Dispositivi di Protezione Individuale	NOEC	No observed effect concentration
EC	European Community	ONU	United Nations Organization
EC50	Half maximal effective concentration	PBT	Persistent, Bioaccumulative and Toxic Substances
ECHA	European Chemicals Agency	vPvB	Very Persistent and very Bioaccumulative substances
EER	European Waste List	ppm	Parts per million
EmS	Emergency Schedules	PROC	Category of processes
EN	European normalization	REACH	Regulation on Registration, Evaluation, Authorisation and Restriction of Chemicals
ERC	Environmental release categories	STOT	Specific target organ toxicity
EUH	Supplemental hazard information	STP	Sewage treatment plant
EuPCS	European Product Categorisation System	UE	European Union
FPN	Protection factor Nominal	UFI	Unique Identifier of Formula
FFP	Filtering Facepiece	UNI	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
Acute Tox. 4 - Acute toxicity (oral), Hazard Category 4	H302 - Harmful if swallowed.
STOT RE 2 - Specific target organ toxicity — Repeated exposure, Hazard Category 2	H373 - May cause damage to organs through prolonged or repeated exposure
Flam. Liq. 3 - Flammable liquids, Hazard Category 3	H226 - Flammable liquid and vapour.
Asp. Tox. 1 - Aspiration hazard, Hazard Category 1	H304 - May be fatal if swallowed and enters airways.
Aquatic Chronic 4 -Hazardous to the aquatic environment — Chronic Hazard, Category 4	H413 - May cause long lasting harmful effects to aquatic life.
Skin Irrit. 2 - Skin corrosion/irritation, Hazard Category 2	H315 - Causes skin irritation
Skin. Sens. 1B - Sensitisation — Skin, hazard category 1B	H317 - May cause an allergic skin reaction.
Eye Dam. 1 - Serious eye damage/eye irritation, Hazard Category 1	H318 - Causes serious eye damage.
Eye Irrit. 2 - Serious eye damage/eye irritation, Hazard Category 2	H319 - Causes serious eye irritation
Aquatic Chronic 3 -Hazardous to the aquatic environment — Chronic Hazard, Category 3	H412 - Harmful to aquatic life with long lasting effects
Skin. Sens. 1 - Sensitisation — Skin, hazard category 1	H317 - May cause an allergic skin reaction.
Aquatic Acute 1 -Hazardous to the aquatic environment — AcuteHazard, Category 1	H400 - Very toxic to aquatic life.
Aquatic Chronic 1 -Hazardous to the aquatic environment — Chronic Hazard, Category 1	H410 - Very toxic to aquatic life with long lasting effects
Aquatic Chronic 2 -Hazardous to the aquatic environment — Chronic Hazard, Category 2	H411 - Toxic to aquatic life with long lasting effects.
EUH066 =Repeated exposure may cause skin dryness or cracking	
M-Factor	Multiplier factor applying to substances hazardous to the aquatic environment acute or chronic toxicity of category 1
Notes related to the identification, classification and labeling of substances defined in Annex VI of CLP	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

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

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

Code ⁽¹⁾	State	Bibliography / documents --> LINK	
AUS	Australia	https://www.dguv.de/ifa/...../limit-values-australia/index-2.jsp	https://engage.swa.gov.au/workplace-exposure-standards-review
		https://www.safeworkaustralia.gov.au/exposure-standards#exposure-standards-in-australia	
AUT	Austria	https://www.dguv.de/ifa/...../limit-values-austria/index-2.jsp	https://www.iusline.at/gesetz/gkv_2011
		https://www.ris.bka.gv.at/GeltendeFassung.wxe?Abfrage=Bundesnormen&Gesetzesnummer=20001418	
BEL	Belgium	https://www.dguv.de/ifa/...../limit-values-belgium/index-2.jsp	https://employment.belgium.be/en
BGR	Bulgaria	https://pirogov.eu/bgr/	
CAN	Canada-Ontario	https://www.dguv.de/ifa/...../limit-values-canada-ontario/index-2.jsp	https://www.labour.gov.on.ca/english/hs/pubs/oel_table.php
CAN	Canada-Québec	https://www.dguv.de/ifa/...../limit-values-canada-quebec/index-2.jsp	http://legisquebec.gouv.qc.ca/fr/showdoc/cr/S-....
		https://www.csst.qc.ca/Pages/index.aspx	
CYP	Cyprus	http://www.mlsi.gov.cy/	
CAE	Czech Republic	https://www.mzcr.cz/	
HRV	Croatia	https://www.hzt.hr	
DNK	Denmark	https://www.dguv.de/ifa/...../limit-values-denmark/index-2.jsp	https://www.retsinformation.dk/eli/Ita/2019/1458

Mr&Mrs FRAGRANCE		MATERIAL SAFETY DATA SHEET LEMON & ORANGE		JEFF
Current revision date: 04/07/2023		Current revision number: 00	Previous revision date: -/-/-	Previous revision number: -
EST	Estonia	http://www.16662.ee/		
EU ⁽²⁾	European Union	https://www.dguv.de/ifa/...../limit-values-european-union/index-2.jsp https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX:31998L0024 https://eur-lex.europa.eu/legal-content/EN/TXT/?qid=1523372586043&uri=CELEX:32004L0037		
FIN	Finland	https://www.dguv.de/ifa/...../limit-values-finland/index-2.jsp https://julkaisut.valtioneuvosto.fi/handle/10024/160967		
FRA	France	https://www.dguv.de/ifa/...../limit-values-france/index-2.jsp https://www.anses.fr/fr http://www.inrs.fr/accueil/dms/inrs/CataloguePapier/ED/TI-ED-984/ed984.pdf		
DEU	Germany (AGS)	https://www.dguv.de/ifa/...../limit-values-germany-(ags)/index-2.jsp https://www.baua.de/DE/...../Regelwerk/TRGS/pdf/TRGS-900.pdf		
DEU	Germany (DFG)	https://www.dguv.de/ifa/...../limit-values-germany-(dfg)/index-2.jsp https://www.dfg.de/en/dfg_profile/...../health_hazards/index.html https://www.dfg.de/dfg_profil/gremien/senat/arbeitsstoffe/publikationen/index.html		
GRC	Greece	http://www.gcsa.gr/		
HUN	Hungary	https://www.dguv.de/ifa/...../limit-values-hungary/index-2.jsp https://www.biztonsagiadatlap.hu/...../5_2020-II-6-ITM-rendelet.pdf		
ISL	Iceland	https://www.ust.is/the-environment-agency-of-iceland/chemicals/		
IRL	Ireland	https://www.dguv.de/ifa/...../limit-values-ireland/index-2.jsp https://www.hsa.ie/eng/...../2016_CodePracticeChemicalAgentsRegulations/		
ITA	Italy	https://www.dguv.de/ifa/...../limit-values-italy/index-2.jsp http://www.preparatipericolosi.iss.it		
JPN	Japan (MHLW)	https://www.dguv.de/ifa/...../limit-values-japan/index-2.jsp https://www.mhlw.go.jp/english/index.html		
JPN	Japan (JSOH)	https://www.dguv.de/ifa/...../limit-values-japan-(soh)/index-2.jsp https://www.sanei.or.jp/		
LVA	Latvia	https://www.dguv.de/ifa/...../limit-values-latvia/index-2.jsp https://likumi.lv/doc.php?id=157382&from=off		
LTU	Lithuania	http://www.gamta.lt/		
LUX	Luxembourg	http://www.ms.public.lu/fr/		
MLT	Malta	https://mccaa.org.mt/		
NZL	New Zealand	https://www.dguv.de/ifa/...../limit-values-new-zealand/index-2.jsp https://worksafe.govt.nz/./work-health/./std-biol-exposure-indices/		
NOR	Norway	https://www.miljodirektoratet.no/ https://www.fhi.no/en/		
CHN	People's Republic of China	https://www.dguv.de/ifa/...../limit-values-china/index-2.jsp http://www.nhfp.gov.cn/zhuz/pyl/200704/38838.shtml		
POL	Poland	https://www.dguv.de/ifa/...../limit-values-poland/index-2.jsp http://www.ciop.pl/		
PRT	Portugal	http://www.inem.pt/ciav		
ROU	Romania	https://www.dguv.de/ifa/...../limit-values-romania/index-2.jsp http://www.mmuncii.ro/.../5114-11042018_modif_HG-1218_Ag_chimici.pdf		
SGP	Singapore	https://www.dguv.de/ifa/...../limit-values-singapore/index-2.jsp https://sso.agc.gov.sg/Act/WSHA2006		
SVK	Slovakia	http://www.ntic.sk/		
SVN	Slovenia	http://www.uk.gov.si/		
KOR	South Korea	https://www.dguv.de/ifa/...../limit-values-south-korea/index-2.jsp http://www.kiha.kr/main/community_view.htm?uid=763&tbn=gongi&page=3		
ESP	Spain	https://www.dguv.de/ifa/...../limit-values-spain/index-2.jsp https://www.insst.es/		
SWE	Sweden	https://www.dguv.de/ifa/...../limit-values-sweden/index-2.jsp https://www.av.se/./hygieniska-gransvarden-afs-20181-foreskrifter/		
CHE	Switzerland	https://www.dguv.de/ifa/...../limit-values-switzerland/index-2.jsp http://suissepro.org/ https://www.suva.ch/de-CH/.....		
NLD	The Netherlands	https://www.dguv.de/ifa/...../limit-values-the-netherlands/index-2.jsp https://www.ser.nl/en https://wetten.overheid.nl/BWBR0008587/2017-07-01-BijlageXIII		
TUR	Turkey	https://www.dguv.de/ifa/...../limit-values-turkey/index-2.jsp https://www.cdc.gov/niosh/		
USA	USA - NIOSH	https://www.dguv.de/ifa/...../limit-values-usa-niosh/index-2.jsp www.osha.gov		
GBR	United Kingdom	https://www.dguv.de/ifa/...../limit-values-united-kingdom/index-2.jsp https://www.hse.gov.uk/research/hsl_pdf/2002/hsl02-23.pdf		

⁽¹⁾ ISO3166-1 alpha-3 ⁽²⁾ NO ISO CODE

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
H317 Skin. Sens. 1	Presence of component in concentration equal to or higher than the defined limit - Annex I, sect. 3.4.3 - Respiratory or skin sensitisation
H319 Eye Irrit. 2	Additivity theory - Annex I, sect. 3.3.3 - Severe eye injury/eye irritation
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