

Current revision date: 23/01/2023

Current revision number: 02

Previous revision date: 28/12/2020

Previous revision number: 01

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier**

Commercial name : ORANGE & SANDALWOOD
UFI : S970-Y0JG-4009-VVVD
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 advised 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, it causes considerable inflammation which 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.
 P273 - Avoid release to the environment.

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.

Contiene: Linalyl acetate, Linalool, Citronellal, Cyclohexanopropanol 2,2,3,6-Tetramethyl-Alpha-Propyl-, Piperonal, Vetiverol.

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

Refer to section 16 for the full text of the hazard statements.

Index number	EC/List n°.	CAS	REACH	International Chemical Identification	X= Conc. %
649-422-00-2	265-149-8	64742-47-8	01-2119484819-18	Distillates (petroleum), hydrotreated light	4.0 < x < 4.5
Hazard Class and Category Code(s), Hazard Statement Code(s)					
Asp. Tox. 1 H304			Classification	Pictograms, Signal Word Code(s)	Specific Concentration limits, M-Factors, Acute Toxicity Estimates (ATE)
			Supplementary Hazard Statement Code(s)	GHS08 - DANGER	Notes
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---	204-116-4	115-95-7	01-2119454789-19	Linalyl acetate	3.5 < x < 4.0
Hazard Class and Category Code(s), Hazard Statement Code(s)					
Skin Irrit. 2 H315, Skin Sens. 1B H317, Eye Irrit. 2 H319			Classification	Pictograms, Signal Word Code(s)	Specific Concentration limits, M-Factors, Acute Toxicity Estimates (ATE)
			Supplementary Hazard Statement Code(s)	GHS07 - WARNING	Notes
--					
603-235-00-2	201-134-4	78-70-6	01-2119474016-42	Linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool	2.5 < x < 3.0
Hazard Class and Category Code(s), Hazard Statement Code(s)					
Skin Irrit. 2 H315, Skin Sens. 1B H317, Eye Irrit. 2 H319			Classification	Pictograms, Signal Word Code(s)	Specific Concentration limits, M-Factors, Acute Toxicity Estimates (ATE)
			Supplementary Hazard Statement Code(s)	GHS07 - WARNING	Notes
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---	218-080-2	2050-08-0	01-2120771342-58	Pentyl salicylate (INCI: Amyl salicylate)	1.5 < x < 2.0
Hazard Class and Category Code(s), Hazard Statement Code(s)					
Acute Tox. 4 H302, Aquatic Acute 1 H400, Aquatic Chronic 1 H410			Classification	Pictograms, Signal Word Code(s)	Specific Concentration limits, M-Factors, Acute Toxicity Estimates (ATE)
H410			Supplementary Hazard Statement Code(s)	GHS07, GHS09 - WARNING	Notes
				M-Factor acute:1 M-Factor chronic:1	--
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---	242-362-4	18479-58-8	01-2119457274-37	2,6-dimethyloct-7-en-2-ol / dihydromyrcenol	1.5 < x < 2.0
Hazard Class and Category Code(s), Hazard Statement Code(s)					
Skin Irrit. 2 H315, Eye Irrit. 2 H319			Classification	Pictograms, Signal Word Code(s)	Specific Concentration limits, M-Factors, Acute Toxicity Estimates (ATE)
			Supplementary Hazard Statement Code(s)	GHS07 - WARNING	Notes
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---	437-530-0	319002-92-1	01-0000018277-65	Propyl (2S)-2-[(2-methylbutan-2-yl)oxy]propanoate	1.5 < x < 2.0
Hazard Class and Category Code(s), Hazard Statement Code(s)					
Aquatic Chronic 3 H412			Classification	Pictograms, Signal Word Code(s)	Specific Concentration limits, M-Factors, Acute Toxicity Estimates (ATE)
			Supplementary Hazard Statement Code(s)	NONE	Notes
--					
603-101-00-3	405-040-6	63500-71-0	01-0000015458-64	Tetrahydro-merhyl-methylpropyl-pyran-4-ol	1.0 < x < 1.5
Hazard Class and Category Code(s), Hazard Statement Code(s)					
Eye Irrit. 2 H319			Classification	Pictograms, Signal Word Code(s)	Specific Concentration limits, M-Factors, Acute Toxicity Estimates (ATE)
			Supplementary Hazard Statement Code(s)	GHS07 - WARNING	Notes
--					
---	233-732-6	10339-55-6	01-2119969272-32	Ethyl linalool	1.0 < x < 1.5
Hazard Class and Category Code(s), Hazard Statement Code(s)					
Eye Irrit. 2 H319, Skin Irrit. 2 H315			Classification	Pictograms, Signal Word Code(s)	Specific Concentration limits, M-Factors, Acute Toxicity Estimates (ATE)
			Supplementary Hazard Statement Code(s)	GHS07 - WARNING	Notes
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---	241-514-7	17511-60-3	--	Tricyclodecyl propionate	1.0 < x < 1.5
Hazard Class and Category Code(s), Hazard Statement Code(s)					
Eye Irrit. 2 H319, Aquatic Chronic 2 H411			Classification	Pictograms, Signal Word Code(s)	Specific Concentration limits, M-Factors, Acute Toxicity Estimates (ATE)
			Supplementary Hazard Statement Code(s)	GHS07, GHS09 - WARNING	Notes
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---	265-745-8	65405-77-8	01-2119987320-37	Cis-3-hexenyl salicylate	0.10 < x < 0.15
Hazard Class and Category Code(s), Hazard Statement Code(s)					
Aquatic Acute 1 H400			Classification	Pictograms, Signal Word Code(s)	Specific Concentration limits, M-Factors, Acute Toxicity Estimates (ATE)
			Supplementary Hazard Statement Code(s)	GHS09 - WARNING	Notes
				M=1	--
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---	268-578-9	68129-81-7	--	Vetiverol	0.10 < x < 0.15
Hazard Class and Category Code(s), Hazard Statement Code(s)					
Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1B H317			Classification	Pictograms, Signal Word Code(s)	Specific Concentration limits, M-Factors, Acute Toxicity Estimates (ATE)
			Supplementary Hazard Statement Code(s)	GHS07 - WARNING	Notes
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---	204-409-7	120-57-0	01-2119983608-21	Heliotropine / Piperonal (DRUG PRECURSOR)	0.10 < x < 0.15
Hazard Class and Category Code(s), Hazard Statement Code(s)					
Skin Sens. 1B H317			Classification	Pictograms, Signal Word Code(s)	Specific Concentration limits, M-Factors, Acute Toxicity Estimates (ATE)
			Supplementary Hazard Statement Code(s)	GHS07 - WARNING	Notes
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---	478-330-3	95851-08-4	01-0000019969-47	Cyclohexanopropanol, 2,2,3,6-Tetramethyl-.Alpha.-Propyl-	0.10 < x < 0.15
Hazard Class and Category Code(s), Hazard Statement Code(s)					
Skin Sens. 1B H317, Aquatic Chronic 4 H413			Classification	Pictograms, Signal Word Code(s)	Specific Concentration limits, M-Factors, Acute Toxicity Estimates (ATE)
			Supplementary Hazard Statement Code(s)	GHS07 - WARNING	Notes
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---	203-376-6	106-23-0	01-2119474900-37	Citronellal	0.10 < x < 0.15
Hazard Class and Category Code(s), Hazard Statement Code(s)					
Skin Irrit. 2 H315, Skin Sens. 1B H317, Eye Irrit. 2 H319			Classification	Pictograms, Signal Word Code(s)	Specific Concentration limits, M-Factors, Acute Toxicity Estimates (ATE)
			Supplementary Hazard Statement Code(s)	GHS07 - WARNING	Notes
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Mr&Mrs FRAGRANCE	MATERIAL SAFETY DATA SHEET		CESARE
	ORANGE & SANDALWOOD		
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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.

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.
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| 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:	Distillates (petroleum), hydrotreated light							
CAS:	64742-47-8							
GESTIS International Limit Values								
	Limit value - Eight hours			Limit value - Short term				
	ppm	mg/m ³	ppm	mg/m ³				
Germany (DFG)	50 (1)(2)	350 (1)(2)	100 (1)(2)(4)	700 (1)(2)(4)				
	--	5 (1)(3)	--	20 (1)(3)(4)				
Switzerland	50	350	100 (2)	700 (2)				
	--	5 (1)	--	--				
	Remarks							
Germany (DFG)	(1) Applies to skin contact (2) Vapour (3) Airborne particles, respirable fraction (4) 15 minutes average value							
Switzerland	(1) Inhalable fraction (2) 15 minutes average value							
Link DNEL value	https://echa.europa.eu/it/registration-dossier/-/registered-dossier/15375							
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		No hazard identified		No hazard identified	
Dermal	No hazard identified		Low hazard (no threshold derived)		No hazard identified		Low hazard (no threshold derived)	
Oral	Not available		Not available		No hazard identified		Not available	
Eyes	Not available		No hazard identified		Not available		No hazard identified	
PNEC								
	Freshwater	no data available: testing technically not feasible		Intermittent	no data available: testing technically not feasible		Marine water	Not available
	STP	no data available: testing technically not feasible		Sediment (freshwater)	no data available: testing technically not feasible		Sediment (marine water)	Not available
	Air	No hazard identified		Soil	no data available: testing technically not feasible		Hazard for predators	no data available: testing technically not feasible

Substance:	Linalyl acetate							
CAS:	115-95-7							
GESTIS International Limit Values								
	Limit value - Eight hours			Limit value - Short term				
	ppm	mg/m ³	ppm	mg/m ³				
	--	--	--	--				
	Remarks							
	--							
	https://echa.europa.eu/it/registration-dossier/-/registered-dossier/14484							
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	2.75 mg/m ³	No hazard identified	No hazard identified		Inhalation	0.68 mg/m ³	No hazard identified	
Dermal	2.5 mg/kg bw/day	No hazard identified	236.2 µg/cm ²		Dermal	1.25 mg/kg bw/day	No hazard identified	
Oral	Not available		Not available		Oral	0.2 mg/kg bw/day	No hazard identified	
Eyes	Not available		Low hazard (no threshold derived)		Eyes	Not available		Low hazard (no threshold derived)
PNEC								
	Freshwater	0.011 mg/L	Intermittent	0.11 mg/L	Marine water	0.001 mg/L		
	STP	10 mg/L	Sediment (freshwater)	0.609 mg/kg sediment dw	Sediment (marine water)	0.061 mg/kg sediment dw		
	Air	No hazard identified	Soil	0.115 mg/kg soil dw	Hazard for predators	No potential for bioaccumulation		

Substance:	Linalool					
CAS:	78-70-6					
GESTIS International Limit Values						
	Limit value - Eight hours			Limit value - Short term		
	ppm	mg/m ³	ppm	mg/m ³		
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Remarks

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<https://echa.europa.eu/it/registration-dossier/-/registered-dossier/14501>

DNEL (Workers)

	Systemic		Local	
	Long term	Short term	Long term	Short term
Inhalation	24.58 mg/m ³	No hazard identified	Low hazard (no threshold derived)	
Dermal	3.5 mg/kg bw/day	No hazard identified	3 mg/cm ²	
Oral	Not available		Not available	
Eyes	Not available		Low hazard (no threshold derived)	

DNEL (Population)

	Systemic		Local	
	Long term	Short term	Long term	Short term
Inhalation	4.33 mg/m ³	No hazard identified	Low hazard (no threshold derived)	
Dermal	1.25 mg/kg bw/day	No hazard identified	1.5 mg/cm ²	
Oral	2.49 mg/kg bw/day	No hazard identified	Not available	
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: Pentyl salicylate (INCI: Amyl salicylate)

CAS: 2050-08-0

GESTIS International Limit Values

	Limit value - Eight hours		Limit value - Short term	
	ppm	mg/m ³	Ppm	mg/m ³
Remarks	--		--	

Link DNEL value <https://echa.europa.eu/it/registration-dossier/-/registered-dossier/25677>

DNEL (Workers)

	Systemic		Local	
	Long term	Short term	Long term	Short term
Inhalation	3.17 mg/m ³	No hazard identified	No hazard identified	
Dermal	0.9 mg/kg bw/day	No hazard identified	No hazard identified	
Oral	Not available		Not available	
Eyes	Not available		No hazard identified	

DNEL (Population)

	Systemic		Local	
	Long term	Short term	Long term	Short term
Inhalation	0.78 mg/m ³	No hazard identified	No hazard identified	
Dermal	0.45 mg/kg bw/day	No hazard identified	No hazard identified	
Oral	0.45 mg/kg bw/day	No hazard identified	Not available	
Eyes	Not available		No hazard identified	

PNEC

	Freshwater	0.77 µg/L	Intermittent	7.7 µg/L	Marine water	0.077 µg/L
STP	10 mg/L		Sediment (freshwater)	0.389 mg/kg sediment dw	Sediment (marine water)	0.039 mg/kg sediment dw
Air	No hazard identified		Soil	1.786 mg/kg soil	Hazard for predators	80 mg/kg food

Substance: 2,6-dimethyloct-7-en-2-ol / dihydromyrcenol

CAS: 18479-58-8

GESTIS International Limit Values

	Limit value - Eight hours		Limit value - Short term	
	ppm	mg/m ³	ppm	mg/m ³
Remarks	--		--	

<https://echa.europa.eu/it/registration-dossier/-/registered-dossier/15832>

DNEL (Workers)

	Systemic		Local	
	Long term	Short term	Long term	Short term
Inhalation	73.5 mg/m ³	No hazard identified	No hazard identified	
Dermal	20.8 mg/kg bw/day	No hazard identified	No hazard identified	
Oral	Not available		Not available	
Eyes	Not available		No hazard identified	

DNEL (Population)

	Systemic		Local	
	Long term	Short term	Long term	Short term
Inhalation	21.7 mg/m ³	No hazard identified	No hazard identified	
Dermal	12.5 mg/kg bw/day	No hazard identified	No hazard identified	
Oral	12.5 mg/kg bw/day	No hazard identified	Not available	
Eyes	Not available		No hazard identified	

PNEC

	Freshwater	27.8 µg/L	Intermittent	0.278 µg/L	Marine water	2.78 µg/L
STP	10 mg/L		Sediment (freshwater)	0.594 mg/kg sediment dw	Sediment (marine water)	0.059 mg/kg sediment dw
Air	No hazard identified		Soil	0.103 mg/kg soil dw	Hazard for predators	111 mg/kg food

Substance: Propyl (2S)-2-[(2-methylbutan-2-yl)oxy]propanoate

CAS: 319002-92-1

GESTIS International Limit Values

	Limit value - Eight hours		Limit value - Short term	
	ppm	mg/m ³	ppm	mg/m ³
Remarks	--		--	

<https://echa.europa.eu/it/registration-dossier/-/registered-dossier/11915>

DNEL (Workers)

	Systemic		Local	
	Long term	Short term	Long term	Short term
Inhalation	8.8 mg/m ³	Not available	Not available	
Dermal	2.5 mg/kg bw/day	Not available	Not available	
Oral	Not available		Not available	
Eyes	Not available		Not available	

DNEL (Population)

	Systemic		Local	
	Long term	Short term	Long term	Short term
Inhalation	2.17 mg/m ³	Not available	Not available	
Dermal	1.25 mg/kg bw/day	Not available	Not available	
Oral	1.25 mg/kg bw/day	Not available	Not available	
Eyes	Not available		Not available	

PNEC

	Freshwater	0.013 mg/L	Intermittent	0.13 mg/L	Marine water	0.001 mg/L
STP	10 mg/L		Sediment (freshwater)	0.117 mg/kg/sediment	Sediment (marine water)	0.012 mg/kg/sediment
Air	Not available		Soil	0.016 mg/kg soil	Hazard for predators	27.8 mg/kg food

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Substance:	Tetrahydro-merhyl-methylpropyl)-pyran-4-ol								
CAS:	63500-71-0								
GESTIS International Limit Values									
			Limit value - Eight hours				Limit value - Short term		
			ppm		mg/m ³		ppm		mg/m ³
			--		--		--		--
Remarks									
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https://echa.europa.eu/it/registration-dossier/-/registered-dossier/14480									
DNEL (Workers)				DNEL (Population)					
Systemic		Local		Systemic		Local			
Long term		Short term		Long term		Short term		Long term	Short term
Inhalation	44.1 mg/L	No hazard identified		No hazard identified		Inhalation	13 mg/L	No hazard identified	
Dermal	41.7 mg/kg bw/day	No hazard identified		No hazard identified		Dermal	25 mg/kg bw/day	No hazard identified	
Oral	Not available		Not available		Oral	7.5 mg/kg bw/day	No hazard identified		Not available
Eyes	Not available		Medium hazard (no threshold derived)		Eyes	Not available		No hazard identified	
PNEC									
Freshwater	0.094 mg/L	Intermittent		0.94 mg/L	Marine water	0.009 mg/L			
STP	10 mg/L	Sediment (freshwater)		0.412 mg/kg/sediment	Sediment (marine water)	0.041 mg/kg/sediment			
Air	No hazard identified		Soil	0.09 mg/kg soil	Hazard for predators		No potential to cause toxic effects if accumulated (in higher organisms) via the food chain		

Substance:	Ethyl linalool								
CAS:	10339-55-6								
GESTIS International Limit Values									
			Limit value - Eight hours				Limit value - Short term		
			ppm		mg/m ³		ppm		mg/m ³
			--		--		--		--
Remarks									
--									
https://echa.europa.eu/it/registration-dossier/-/registered-dossier/13181									
DNEL (Workers)				DNEL (Population)					
Systemic		Local		Systemic		Local			
Long term		Short term		Long term		Short term		Long term	Short term
Inhalation	3 mg/m ³	18 mg/m ³		No hazard identified		Inhalation	0,74 mg/m ³	4,4 mg/m ³	
Dermal	2,7 mg/kg bw/day	5,5 mg/kg bw/day		1,6 mg/cm ²		Dermal	1,4 mg/kg bw/day	2,7 mg/kg bw/day	
Oral	Not available		Not available		Oral	0,2 mg/kg bw/day	1,3 mg/kg bw/day		Not available
Eyes	Not available		Low hazard (no threshold derived)		Eyes	Not available		Low hazard (no threshold derived)	
PNEC									
Freshwater	0,023 mg/L	Intermittent		0,23 mg/L	Marine water	0,002 mg/L			
STP	2,2 mg/L	Sediment (freshwater)		0,223 mg/kg/sediment	Sediment (marine water)	0,022 mg/kg/sediment			
Air	No hazard identified		Soil	0,031 mg/kg soil	Hazard for predators		8,53 mg/kg food		

Substance:	Cis-3-hexenyl salicylate								
CAS:	65405-77-8								
GESTIS International Limit Values									
			Limit value - Eight hours				Limit value - Short term		
			ppm		mg/m ³		ppm		mg/m ³
			--		--		--		--
Remarks									
--									
https://echa.europa.eu/it/registration-dossier/-/registered-dossier/12174									
DNEL (Workers)				DNEL (Population)					
Systemic		Local		Systemic		Local			
Long term		Short term		Long term		Short term		Long term	Short term
Inhalation	1.59 mg/m ³	No hazard identified		No hazard identified		Inhalation	0,39 mg/m ³	No hazard identified	
Dermal	0,9 mg/kg bw/day	No hazard identified		No hazard identified		Dermal	0,45 mg/kg bw/day	No hazard identified	
Oral	Not available		Not available		Oral	0,23 mg/kg bw/day	No hazard identified		Not available
Eyes	Not available		No hazard identified		Eyes	Not available		No hazard identified	
PNEC									
Freshwater	0.61 µg/L	Intermittent		6.1 µg/L	Marine water	0.061 µg/L			
STP	10 mg/L	Sediment (freshwater)		0,11 mg/kg/sediment	Sediment (marine water)	0,011 mg/kg/sediment			
Air	No hazard identified		Soil	0,022 mg/kg soil	Hazard for predators		40 mg/kg food		

Substance:	Heliotropine / Piperonal (DRUG PRECURSOR)								
CAS:	120-57-0								
GESTIS International Limit Values									
			Limit value - Eight hours				Limit value - Short term		
			ppm		mg/m ³		ppm		mg/m ³
			--		--		--		--
Remarks									
--									
Link DNEL value	https://echa.europa.eu/it/registration-dossier/-/registered-dossier/2209								
DNEL (Workers)				DNEL (Population)					
Systemic		Local		Systemic		Local			
Long term		Short term		Long term		Short term		Long term	Short term
Inhalation	17.6 mg/m ³	No hazard identified		No hazard identified		Inhalation	4.3 mg/m ³	No hazard identified	
Dermal	2.5 mg/kg bw/day	No hazard identified		Medium hazard (no threshold derived)		Dermal	1.25 mg/kg bw/day	No hazard identified	
Oral	Not available		Not available		Oral	1.25 mg/kg bw/day	No hazard identified		Not available
Eyes	Not available		No hazard identified		Eyes	Not available		No hazard identified	

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PNEC	Freshwater	2.5 µg/L	Intermittent	25 µg/L	Marine water	0.25 µg/L
	STP	10 mg/L	Sediment (freshwater)	11.9 µg/kg sediment dw	Sediment (marine water)	1.2 µg/kg sediment dw
	Air	No hazard identified	Soil	0.84 µg/kg soil dw	Hazard for predators	No potential for bioaccumulation

Substance:	Citronellal
CAS:	106-23-0

GESTIS International Limit Values				
	Limit value – Eight hours		Limit value – Short term	
	ppm	mg/m ³	ppm	mg/m ³
	--	--	--	--
	Remarks			
	--			

Link DNEL value <https://echa.europa.eu/it/registration-dossier/-/registered-dossier/11672>

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/m ³	No hazard identified	No hazard identified	Inhalation	2.7 mg/m ³	No hazard identified	No hazard identified
Dermal	1.7 mg/kg bw/day	No hazard identified	140 µg/cm ²	Dermal	1 mg/kg bw/day	No hazard identified	140 µg/cm ²
Oral	Not available	Not available	Not available	Oral	0.6 mg/kg bw/day	No hazard identified	Not available
Eyes	Not available	Low hazard (no threshold derived)	Low hazard (no threshold derived)	Eyes	Not available	Low hazard (no threshold derived)	Low hazard (no threshold derived)

PNEC	Freshwater	0.009 mg/L	Intermittent	0.087 mg/L	Marine water	0.001 mg/L
	STP	4 mg/L	Sediment (freshwater)	0.159 mg/kg sediment dw	Sediment (marine water)	0.016 mg/kg sediment dw
	Air	No hazard identified	Soil	0.27 mg/kg soil dw	Hazard for predators	No potential for bioaccumulation

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				
		RISK CHARACTERISTICS	PROTECTION			
 <p>Eye and face protection devices</p>	<p>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</p>		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				
		CHEMICAL PROTECTION				
 <p>Gloves</p>	<p>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</p>		Type	Level	Time	Substances
			A	2	30 minutes	minimum 6
			B	2	30 minutes	minimum 3
			C	1	10 minutes	minimum 1
			MATERIALS FOR PROTECTION FROM CHEMICAL AGENTS			
		Highlights	LATEX	NEOPRENE	NITRILE	PVC
	Excellent flexibility and tear resistance	Polyvalent chemical resistance: acids, aliphatic solvents. Good resistance to sunlight and ozone.	Excellent resistance to abrasion and perforation. Excellent resistance to hydrocarbon derivatives	Good resistance to acids and bases		


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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.	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				
		DANGER	Full coverage garment		Partial coverage garment	
 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-coverage protective clothing, it is recommended that all operators carry out the "seven movements" test. Standard EN 13688 Protective clothing - General requirements		Gas and fumes	A	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 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				
		DUST FILTERS				
 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 O ₂ 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.	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	
Visibility	Reduction of protection		Facial Filter FFP3 Half mask + P3	50	30	
Freedom of movement	Reduction of weight and discomfort		Full face + P1	5	4	
Facial anatomy	Mask adequacy		Full face + P2	20	15	
Environmental conditions			Full face + P3	1000	400	

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

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.

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

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

8.2.3 Environmental exposure controls

Prevent uncontrolled release into the environment.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

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

Physical and chemical properties		Value	Notes or analytical method
a)	Physical state	Solid	As defined in Annex I, section 1.0 of Reg. 1272/2008
b)	Colour	Various 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
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) Oxidising 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 determined
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.

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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.

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	: If brought into contact with the eyes, it causes considerable inflammation which can last for more than 24 hours
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:	Distillates (petroleum), hydrotreated light		
CAS:	64742-47-8		
EXPOSURE AND HEALTH EFFECTS			
Routes of exposure	The substance can be absorbed into the body by inhalation of its vapour and by 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 vapour is mildly irritating to the eyes. If swallowed the substance easily enters the airways and could result in aspiration pneumonitis.		
Effects of long-term or repeated exposure	The substance may cause effects on the central nervous system. Exposure to high concentrations of vapour could cause unconsciousness. The substance defats the skin, which may cause dryness or cracking.		
SYMPTOMS BY SPECIFIC ROUTE OF EXPOSURE			
Inhalation	Dizziness. Headache. Drowsiness. Nausea. Unconsciousness.		
Skin	Dry skin.		
Eyes	Redness.		
Ingestion	Aspiration hazard! Cough. Diarrhoea. Sore throat. Vomiting. Further see Inhalation.		
Notes	: This is a complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly in the range of C9 through C16 and boiling in the range of approximately 150°C to 290°C (302°F to 554°F). The same CAS number has also been used to identify several products. Variations in UN numbers, Hazard Classes and Packing Groups are possible. Depending on the raw material and the production processes, the composition and physical properties of this solvent can vary considerably. The symptoms of chemical pneumonitis do not become manifest until a few hours or even a few days have passed.		

Substance:	Linalyl acetate			
CAS:	115-95-7			
	ORAL	INHALATION	SKIN	NOTES
	Rat LD50: > 9000 mg/kg bw	--	Rabbit LD50: > 5000 mg/kg bw	--
The values entered in this section are those available, at the time of writing this SDS, in the ECHA dossier in the Toxicological information section or from the supplier's indications.				
EXPOSURE AND HEALTH EFFECTS				
Routes of exposure	Skin absorption			
Inhalation risk	No indication can be given about the rate in which a harmful concentration of this substance in the air is reached on evaporation at 20 ° C.			
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:	Linalool			
CAS:	78-70-6			
	ORAL	INHALATION	SKIN	NOTES
	Mouse LD50: 2 200 mg/kg bw	MOuse LC50: > 3.2 mg/L (3200 mg/m³)	Rabbi LD50: 5 610 mg/kg bw	--
The values entered in this section are those available, at the time of writing this SDS, in the ECHA dossier in the Toxicological information section or from the supplier's indications.				
EXPOSURE AND HEALTH EFFECTS				
Routes of exposure	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 this substance in the air is reached on evaporation at 20 ° C.			
Effects of short-term exposure	The substance is irritating to the eyes and skin.			
Effects of long-term or repeated exposure	The substance may have effects on the liver.			

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SYMPTOMS BY SPECIFIC ROUTE OF EXPOSURE

Inhalation	--
Skin	Redness. Ache.
Eyes	Redness. Ache.
Ingestion	--
Notes	--

Substance: Pentyl salicylate (INCI: Amyl salicylate)**CAS:** 2050-08-0

ORAL	INHALATION	DERMAL	NOTES
Rat LD50: 2000 mg/kg bw	--	Rabbit LD50: 14150 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: 2,6-dimethyloct-7-en-2-ol / dihydromyrcenol**CAS:** 18479-58-8

ORAL	INHALATION	DERMAL	NOTES
Rat LD50: 4100 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: Propyl (2S)-2-[(2-methylbutan-2-yl)oxy]propanoate**CAS:** 319002-92-1

ORAL	INHALATION	DERMAL	NOTES
Rat LD50: 5000 mg/kg bw	--	Rat LD50: 2000 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: Tetrahydro-merhyl-methylpropyl)-pyran-4-ol**CAS:** 63500-71-0

ORAL	INHALATION	DERMAL	NOTES
Rat LD50: > 2000 mg/kg bw	--	Rabbit LD50: > 2000 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: Ethyl linalool**CAS:** 10339-55-6

ORAL	INHALATION	DERMAL	NOTES
Rat LD50: 5283 mg/kg bw	Rat LC50: 1.0 mg/l air	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: Cis-3-hexenyl salicylate**CAS:** 65405-77-8

ORAL	INHALATION	DERMAL	NOTES
Rat LD50: 3330 mg/kg bw	--	Rabbit LD50: >2000 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: Heliotropine / Piperonal (DRUG PRECURSOR)**CAS:** 120-57-0

ORAL	INHALATION	DERMAL	NOTES
Rat LD50: 2700 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: Citronellal**CAS:** 106-23-0

ORAL	INHALATION	DERMAL	NOTES
Rat LD50 = 2423 mg/kg	--	2500 < Rabbit LD50 mg/kg < 5000	--

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.

Ecotoxicological information specific to the substances contained

Substance:	Distillates (petroleum), hydrotreated light				
CAS:	64742-47-8				
LC50 – fish	: 96h – 2÷5 mg/L	Species	: Oncorhynchus mykiss	Guidelines	: OECD203
EC50 – aquatic invertebrates	: 48h – 1.4 mg/L	Species	: Daphnia Magna	Guidelines	: OECD202
EC50 - aquatic algae and cyanobacteria	: 72h - 1÷3 mg/L	Species	: Pseudokirchneriella subcapitata	Guidelines	: OECD201
NOEC chronic fish	: --	Species	: --	Guidelines	: --
NOEC chronic invertebrates	: --	Species	: --	Guidelines	: --
NOEC chronic algae and cyanobacteria	: 72h – 1,0 mg/L	Species	: Pseudokirchneriella subcapitata	Guidelines	: 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	: --

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NOEC chronic invertebrates	--	Species	: --	Guidelines	: --
NOEC chronic algae and cyanobacteria	96h-3.9 mg/L	Species	: Pseudokirchneriella subcapitata	Guidelines	: OECD 201

Substance:	Linalool				
CAS:	78-70-6				
LC50 – fish	96h - 27.8 mg/L	Species	: Salmo gairdneri	Guideline	: OECD Guideline 203
EC50 – aquatic invertebrates	48h - 59 mg/L	Species	: Daphnia magna	Guideline	: OECD Guideline 202
ERL50 - algae and cyanobacteria	96h - 156.7 mg/L	Species	: Desmodemus subspicatus	Guideline	: DIN 38412 L 9
NOEC Chronic fish	96h < 3.5 mg/L	Species	: Salmo gairdneri	Guideline	: OECD Guideline 203
NOEC Chronic aquatic invertebrates	48h - 25 mg/L	Species	: Daphnia magna	Guideline	: OECD Guideline 202
NOERL Chronic algae and cyanobacteria	96h - 54.3 mg/L	Specie	: Desmodemus subspicatus	Guideline	: DIN 38412 L 9

Substance:	Pentyl salicylate (INCI: Amyl salicylate)				
CAS:	2050-08-0				
LC50 – fish	96h – 1.34 mg/L	Species	: Danio rerio	Guidelines	: OECD203
EC50 – aquatic invertebrates	48h – 0.88 mg/L	Species	: Daphnia Magna	Guidelines	: OECD202
EC50 - aquatic algae and cyanobacteria	72h – 0.77 mg/L	Species	: Pseudokirchneriella subspicatus	Guidelines	: OECD201
NOEC chronic fish	--	Species	: --	Guidelines	: --
NOEC chronic invertebrates	--	Species	: --	Guidelines	: --
NOEC chronic algae and cyanobacteria	72h – 0.2 mg/L	Species	: Pseudokirchneriella subspicatus	Guidelines	: OECD201

Substance:	2,6-dimethyloct-7-en-2-ol / dihydromyrcenol				
CAS:	18479-58-8				
LC50 – fish	96h - 27.8 mg/l	Species	: Oncorhynchus mykiss	Guidelines	: OECD 203
EC50 – aquatic invertebrates	48h - 38 mg/L	Species	: Daphnia magna	Guidelines	: OECD 202
EC50 - aquatic algae and cyanobacteria	72h - 80 mg/L	Species	: Desmodemus subspicatus	Guidelines	: OECD 201
NOEC chronic fish	96h - 19.9 mg/l	Species	: Oncorhynchus mykiss	Guidelines	: OECD 210
NOEC chronic invertebrates	48h - 10 mg/L	Species	: Daphnia magna	Guidelines	: OECD 211
NOEC chronic algae and cyanobacteria	72h – 25 mg/L	Species	: Desmodemus subspicatus	Guidelines	: OECD 201

Substance:	Propyl (2S)-2-[(2-methylbutan-2-yl)oxy]propanoate				
CAS:	319002-92-1				
LC50 – fish	96h: 13 mg/L	Species	: Oncorhynchus mykiss	Guidelines	: OECD 203
EC50 – aquatic invertebrates	48h: >100 mg/L	Species	: Daphnia magna	Guidelines	: OECD 202
EC50 - aquatic algae and cyanobacteria	72h: >85 mg/L	Species	: Desmodemus subspicatus	Guidelines	: OECD 201
NOEC chronic fish	--	Species	: --	Guidelines	: --
NOEC chronic invertebrates	--	Species	: --	Guidelines	: --
NOEC chronic algae and cyanobacteria	--	Species	: --	Guidelines	: --

Substance:	Tetrahydro-merhyl-methylpropyl)-pyran-4-ol				
CAS:	63500-71-0				
LC50 – fish	96h-354 mg/L	Species	: Oncorhynchus mykiss	Guidelines	: OCSE 203
EC50 – aquatic invertebrates	48h-320 mg/L	Species	: Daphnia magna	Guidelines	: OCSE 202
EC50 - aquatic algae and cyanobacteria	72h- >100 mg/L	Species	: Desmodemus subspicatus	Guidelines	: OCSE 201
NOEC chronic fish	--	Species	: --	Guidelines	: --
NOEC chronic invertebrates	--	Species	: --	Guidelines	: --
NOEC chronic algae and cyanobacteria	--	Species	: --	Guidelines	: --

Substance:	Ethyl linalool				
CAS:	10339-55-6				
LC50 – fish	96h - 24 mg/L	Species	: Brachydanio rerio	Guidelines	: OECD 203
EC50 – aquatic invertebrates	48h - 23 mg/L	Species	: Daphnia magna	Guidelines	: OECD 202
EC50 - aquatic algae and cyanobacteria	96h - 25,1 mg/L	Species	: Scenedesmus subspicatus	Guidelines	: OECD 201
NOEC chronic fish	--	Species	: --	Guidelines	: --
NOEC chronic invertebrates	--	Species	: --	Guidelines	: --
NOEC chronic algae and cyanobacteria	--	Species	: --	Guidelines	: --

Substance:	Cis-3-hexenyl salicylate				
CAS:	65405-77-8				
LC50 – fish	96h - 0,64 mg/L	Species	: Oncorhynchus mykiss	Guideline	: OECD203
EC50 – aquatic invertebrates	48h – 0,6 mg/L	Species	: Daphnia magna	Guideline	: OECD202
ERL50 - algae and cyanobacteria	96h – 0,61 mg/L	Species	: Desmodemus subspicatus	Guideline	: OECD201
NOEC Cronica fish	--	Species	: --	Guideline	: --
NOEC Cronica aquatic invertebrates	--	Species	: --	Guideline	: --
NOERL Cronica algae and cyanobacteria	96h – 0,15 mg/L	Species	: Desmodemus subspicatus	Guideline	: OECD201

Substance:	Heliotropine / Piperonal (DRUG PRECURSOR)				
CAS:	120-57-0				
LC50 – fish	96h - 2.5 mg/L	Species	: Cyprinus carpio	Guideline	: OECD203
EC50 – aquatic invertebrates	48h – 52 mg/L	Species	: Daphnia Magna	Guideline	: OECD202
ERL50 - algae and cyanobacteria	72h - 31 mg/L	Species	: Pseudokirchneriella supcapitata	Guideline	: OECD201
NOEC Cronica fish	96h - - - mg/L	Species	: --	Guideline	: --
NOEC Cronica aquatic invertebrates	48h - - - mg/L	Species	: --	Guideline	: --
NOERL Cronica algae and cyanobacteria	72h – 4.8 mg/L	Species	: Pseudokirchneriella supcapitata	Guideline	: OECD201

Substance:	Citronellal				
CAS:	106-23-0				
LC50 – pesci	: 96h – 22 mg/L	Specie	: Leuciscus idus	Linee guida	: DIN 38 412, part L15
EC50 – crostacei	: 48h – 8.68 mg/L	Specie	: Daphnia magna	Linee guida	: EU Directive 79/831/EEC, Annex V, part C
EC50 - Alghe / Piante Acquatiche	: 72h – 13.33 mg/L	Specie	: Desmodemus subspicatus	Linee guida	: DIN 38412, Part 9
NOEC Cronica Pesci	: --	Specie	: --	Linee guida	: --
NOEC Cronica Crostacei	: --	Specie	: --	Linee guida	: --
NOEC Cronica Alghe / Piante Acquatiche	: --	Specie	: --	Linee guida	: --

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12.2 Persistence and degradability

Data not available for the mixture.

Specific biodegradation information for the substances contained

Substance:	Distillates (petroleum), hydrotreated light		
CAS:	64742-47-8		
Biodegradation in water:	Intrinsically biodegradable	Test time :	28d
Substance:	Linalyl acetate		
CAS:	115-95-7		
Biodegradation in water:	Easily biodegradable	Test time :	28d
Substance:	Linalool		
CAS:	78-70-6		
Biodegradation in water:	Easily biodegradable	Test time :	28d
Substance:	Pentyl salicylate (INCI: Amyl salicylate)		
CAS:	2050-08-0		
Biodegradation in water:	Easily biodegradable	Test time :	28d
Substance:	2,6-dimethyloct-7-en-2-ol / dihydromyrcenol		
CAS:	18479-58-8		
Biodegradation in water:	Easily biodegradable	Test time :	28d
Substance:	Propyl (2S)-2-[(2-methylbutan-2-yl)oxy]propanoate		
CAS:	319002-92-1		
Biodegradation in water :	Easily biodegradable	Test time :	28d
Substance:	Tetrahydro-merhyl-methylpropyl)-pyran-4-ol		
CAS:	63500-71-0		
Biodegradation in water:	Not easily biodegradable	Test time :	--
Substance:	Ethyl linalool		
CAS:	10339-55-6		
Biodegradation in water	Readily biodegradable	Test time :	28 giorni
Substance:	Cis-3-hexenyl salicylate		
CAS:	65405-77-8		
Biodegradation in water:	Readily biodegradable	Test time :	28 giorni
Substance:	Heliotropine / Piperonal (DRUG PRECURSOR)		
CAS:	120-57-0		
Biodegradation in water:	Easily biodegradable	Test time :	28d
Substance:	Citronellal		
CAS:	106-23-0		
Biodegradation in water:	Easily biodegradable	Tempo del test	: 28 days

12.3 Bioaccumulative potential

Data not available for the mixture.

Bioaccumulation information specific to the substances contained

Substance:	Distillates (petroleum), hydrotreated light		
CAS:	64742-47-8		
Partition coefficient: n-octanol/water	:	Standard partition coefficient studies are not applicable to petroleum UVCB substances, therefore, according to Annex XI, section 1.3,	
BCF	:	testing is not scientifically necessary	
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:	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 a low bioaccumulation potential based on log Kow <=3	
Substance:	Pentyl salicylate (INCI: Amyl salicylate)		
CAS:	2050-08-0		
Partition coefficient: n-octanol / water	:	Log Kow (Log Pow): 4.4 a 30°C	
BCF	:	570 L/kg ww	
Substance:	2,6-dimethyloct-7-en-2-ol / dihydromyrcenol		
CAS:	18479-58-8		
Partition coefficient: n-octanol / water	:	Log Kow (Log Pow): 3.25 a 40 °C	
BCF	:	64.8 L/kg ww	
Substance:	4-isopropylcyclohexylmethanol		
CAS:	5502-75-0		
Partition coefficient: n-octanol / water	:	Log Kow (Log Pow): 3.55 – 30°C	
BCF	:	81,5 L / kg	
Substance:	Tetrahydro-merhyl-methylpropyl)-pyran-4-ol		
CAS:	63500-71-0		
Partition coefficient: n-octanol / water	:	Log Kow (Log Pow): 1.65	
BCF	:	--	

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Substance:	Ethyl linalool
CAS:	10339-55-6
Partition coefficient: n-octanol / water	Log Kow (Log Pow): 3.3 a 20 °C
BCF	--
Substance:	Cis-3-hexenyl salicylate
CAS:	65405-77-8
Partition coefficient : n-octanol/water	: Log Kow (Log Pow): 4.8 a 25 °C
BCF	: considered non-bioaccumulative
Substance:	Heliotropine / Piperonal (DRUG PRECURSOR)
CAS:	120-57-0
Partition coefficient: n-octanol / water	: Log Kow (Log Pow): 1.2 a 35°C
BCF	: The study should not be conducted because the substance has a low bioaccumulation potential based on log Kow <= 3
Substance:	Citronellal
CAS:	106-23-0
Coefficiente di ripartizione: n-ottanolo/acqua	: Log Kow (Log Pow): 3.62 a 25°C
BCF	: According to a calculated BCF of 113.6 L/kg using BCFBAF v3.00 only moderate bioaccumulation of the substance is expected.

12.4 Mobility in soil

Data not available for the mixture.

Mobility information in soil specific to the substances contained

Substance:	Distillates (petroleum), hydrotreated light
CAS:	64742-47-8
The substance is a UVCB hydrocarbon. The standard tests for this endpoint are intended for single substances and are not appropriate for this complex substance.	
Substance:	Linalyl acetate
CAS:	115-95-7
Log Koc = 2.6359 (Koc at 20 °C: 432.4) Based on this result, adsorption to the solid soil phase is not expected.	
Substance:	Linalool
CAS:	78-70-6
In accordance with column 2 of Annex VIII of REACH, adsorption/desorption tests (both screening and further tests) are not required as the substance is expected to have a low potential for adsorption based on its log Kow low (<3) and the substance is readily biodegradable and therefore degrades rapidly in the environment.	
Substance:	Pentyl salicylate (INCI: Amyl salicylate)
CAS:	2050-08-0
Koc a 20°C: 5012 (LogKoc: 3.7)	
Substance:	2,6-dimethyloct-7-en-2-ol / dihydromyrcenol
CAS:	18479-58-8
A study was conducted following the OECD 121 guideline: the adsorption coefficient of the test element was determined to be 177.83 (Log Koc = 2.25). Given its high solubility in water, this value is low enough to suggest that the test element will show limited uptake to soil or sediment particles and will primarily depart into water (either surface water or groundwater compartments).	
Substance:	Propyl (2S)-2-[(2-methylbutan-2-yl)oxy]propanoate
CAS:	319002-92-1
Koc 53.8 [LogKoc: 1.73]	
Substance:	Tetrahydro-merhyl-methylpropyl)-pyran-4-ol
CAS:	63500-71-0
Log Koc: 1.62 – Substance is not expected to be absorbed from soil.	
Substance:	Ethyl linalool
CAS:	10339-55-6
In accordance with column 2 of Annex VIII of the REACH Regulation, adsorption/desorption screening is not necessary as the substance is readily biodegradable and therefore degrades rapidly in the environment.	
Substance:	Cis-3-hexenyl salicylate
CAS:	65405-77-8
Koc a 20 °C: 1 770 [LogKoc: 3.25]	
Substance:	Heliotropine / Piperonal (DRUG PRECURSOR)
CAS:	120-57-0
The substance is expected to have a low potential for adsorption as it has a low partition coefficient of water in octanol and is readily biodegradable. Information on Henry's Law constant and distribution patterns is not required in REACH and no other distribution data is available.	
Substance:	Citronellal
CAS:	106-23-0
Absorption into the solid phase of soil is not expected	

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.

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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): R13 - 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): R13 - 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	Not applicable	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.

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

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Category SEVESO: --

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

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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
Asp. Tox. 1 - Aspiration hazard, Hazard Category 1	H304 - May be fatal if swallowed and enters airways.
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 Irrit. 2 - Serious eye damage/eye irritation, Hazard Category 2	H319 - Causes serious eye irritation
Acute Tox. 4 - Acute toxicity (oral), Hazard Category 4	H302 - Toxic if swallowed.
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 3 - Hazardous to the aquatic environment — Chronic Hazard, Category 3	H412 - Harmful 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.
Aquatic Chronic 4 - Hazardous to the aquatic environment — Chronic Hazard, Category 4	H413 - May cause long lasting harmful effects to aquatic life
Skin. Sens. 1 - Sensitisation — Skin, hazard category 1	H317 - May cause an allergic skin reaction.

Indicazioni di pericolo supplementari esposte alla sezione 3

None

M-Factor Means a multiplying factor. It is applied to the concentration of a substance classified as hazardous to the aquatic environment acute category 1 or chronic category 1.

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
AUT	Austria	https://www.safeworkaustralia.gov.au/exposure-standards#exposure-standards-in-australia https://www.jusline.at/gesetz/gkv_2011
BEL	Belgium	https://www.ris.bka.gov.at/GeltendeFassung.wxe?Abfrage=Bundesnormen&Gesetzesnummer=20001418
BGR	Bulgaria	https://www.dguv.de/ifa/...../limit-values-belgium/index-2.jsp https://employment.belgium.be/en
CAN	Canada-Ontario	https://pirogov.eu/bg/ https://www.dguv.de/ifa/...../limit-values-canada-ontario/index-2.jsp https://www.labour.gov.on.ca/english/hs/pubs/oe/ 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-.....
CYP	Cyprus	https://www.cstt.qc.ca/Pages/index.aspx 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/ta/2019/1458
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
FIN	Finland	https://eur-lex.europa.eu/legal-content/EN/TXT/?qid=1523372586043&uri=CELEX:32004L0037 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
DEU	Germany (AGS)	http://www.inrs.fr/acceuil/dms/inrs/CataloguePapier/ED/TI-ED-984/ed984.pdf 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
GRC	Greece	https://www.dfg.de/dfg_profil/gremien/senat/arbeitsstoffe/publikationen/index.html http://www.gcsf.gr/
HUN	Hungary	https://www.dguv.de/ifa/...../limit-values-hungary/index-2.jsp https://www.biztonsagiatlap.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.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-jsoh/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	http://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/zhuzyi/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&tbm=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/
NLD	The Netherlands	https://www.dguv.de/ifa/...../limit-values-the-netherlands/index-2.jsp https://www.ser.nl/en
TUR	Turkey	https://wetten.overheid.nl/BWBR0008587/2017-07-01-#BijlageXIII https://www.dguv.de/ifa/...../limit-values-turkey/index-2.jsp
USA	USA - NIOSH	https://www.dguv.de/ifa/...../limit-values-usa-niosh/index-2.jsp https://www.cdc.gov/niosh/
USA	USA - OSHA	https://www.dguv.de/ifa/...../limit-values-usa-osha/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

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Previous revision number: 01

⁽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
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
- ADR training for personnel involved in handling
- 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