

Mr&Mrs FRAGRANCE	MATERIAL SAFETY DATA SHEET		BIG JOY
	RED CHERRY BLOSSOM		
Current revision date: 05/10/2022	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 : RED CHERRY BLOSSOM
 UFI : QYA0-401A-200E-RJGG
 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. 1B, Aquatic Chronic 3
 Hazard statement Code(s) : H317 - May cause an allergic skin reaction
 H412 - Harmful to aquatic life with long lasting effects

2.1.2 Adverse Effects

If brought into contact with the skin, the product may cause skin sensitization. The product is dangerous for the environment as it is harmful to aquatic life with long lasting effects.

2.2 Label elements

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

Hazard pictogram(s) : GHS07



Signal Word Code(s) : WARNING
 Hazard statement Code(s) : H317 - May cause an allergic skin reaction
 H412 - Harmful to aquatic life with long lasting effects
 Suppl. Hazard statement Code(s) : Not applicable
 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
 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: Tetrahydrofurfural, Cinnamyl nitrile, (E)-1-(2,6,6-Trimethyl-2-cyclohexen-1-yl)-2-buten-1-one, 4-isopropylcyclohexylmethanol, Cyclamen aldehyde.

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

2.2.2 Additional regulations to be implemented on the label

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

2.3 Other hazards

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

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

Child-resistant packaging (ISO 8317_ Child-resistant packaging - Requirements and testing procedures for reclosable packages) : **Not applicable**
 Tactile warnings of danger (ISO 11683_Packaging - Tactile warnings of danger - Requirements) : **Not applicable**

SECTION 3: Composition/information on ingredients

3.1 Substances

Not relevant

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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. %
---	243-718-1	20298-69-5	01-2119970713-33	Cis-2 tertbutylcyclohexyl acetate	3,5 < x < 4,0
Classification					
Hazard Class and Category Code(s), Hazard Statement Code(s)		Supplementary Hazard Statement Code(s)		Pictograms, Signal Word Code(s)	Specific Concentration limits, M-Factors, Acute Toxicity Estimates (ATE)
Aquatic Chronic 2 H411		--		GHS09 ---	--
605-012-00-5	202-860-4	100-52-7	01-2119455540-44	Benzaldehyde	3,5 < x < 4,0
Classification					
Hazard Class and Category Code(s), Hazard Statement Code(s)		Supplementary Hazard Statement Code(s)		Pictograms, Signal Word Code(s)	Specific Concentration limits, M-Factors, Acute Toxicity Estimates (ATE)
Acute Tox. 4* H302		--		GHS02 – ATTENZIONE	--
--	203-246-9	104-87-0	01-2120755000-72	p-tolualdehyde / 4-Methylbenzaldehyd	1,0 < x < 1,5
Classification					
Hazard Class and Category Code(s), Hazard Statement Code(s)		Supplementary Hazard Statement Code(s)		Pictograms, Signal Word Code(s)	Specific Concentration limits, M-Factors, Acute Toxicity Estimates (ATE)
Acute Tox. 4 H302, Eye Irrit. 2 H319		--		GHS07 - ATTENZIONE	--
603-101-00-3	405-040-6	63500-71-0	01-0000015458-64	Tetrahydro-merhyl-methylpropyl)-pyran-4-ol	1,0 < x < 1,5
Classification					
Hazard Class and Category Code(s), Hazard Statement Code(s)		Supplementary Hazard Statement Code(s)		Pictograms, Signal Word Code(s)	Specific Concentration limits, M-Factors, Acute Toxicity Estimates (ATE)
Eye Irrit. 2 H319		--		GHS07, attenzione	--
---	233-221-8	10094-34-5	01-2120742578-44	Dimethyl phenethyl butyrate	1,0 < x < 1,5
Classification					
Hazard Class and Category Code(s), Hazard Statement Code(s)		Supplementary Hazard Statement Code(s)		Pictograms, Signal Word Code(s)	Specific Concentration limits, M-Factors, Acute Toxicity Estimates (ATE)
Aquatic Chronic 2 H411		--		GHS09 – ATTENZIONE	--
--	225-582-5	4940-11-8	01-2120758795-36	Ethyl hydroxypyrrone / 2-ethyl-3-hydroxy-4-pyrone	1,0 < x < 1,5
Classification					
Hazard Class and Category Code(s), Hazard Statement Code(s)		Supplementary Hazard Statement Code(s)		Pictograms, Signal Word Code(s)	Specific Concentration limits, M-Factors, Acute Toxicity Estimates (ATE)
Acute Tox. 4 H302		--		GHS07 - ATTENZIONE	--
---	238-969-9	14901-07-6	01-2119937833-30	Beta-ionone	1,0 < x < 1,5
Classification					
Hazard Class and Category Code(s), Hazard Statement Code(s)		Supplementary Hazard Statement Code(s)		Pictograms, Signal Word Code(s)	Specific Concentration limits, M-Factors, Acute Toxicity Estimates (ATE)
Aquatic Chronic 2 H411		--		GHS09 ---	--
--	201-133-9	78-69-3	01-2119454788-21	Tetrahydrolinalool / 3,7-dimethyloctan-3-ol	1,0 < x < 1,5
Classification					
Hazard Class and Category Code(s), Hazard Statement Code(s)		Supplementary Hazard Statement Code(s)		Pictograms, Signal Word Code(s)	Specific Concentration limits, M-Factors, Acute Toxicity Estimates (ATE)
Skin Irrit. 2 H315, Skin Sens. 1B H317, Eye Irrit. 2 H319		--		GHS07-ATTENZIONE	--
--	224-441-5	4360-47-8	--	Cinnamyl nitrile / Cinnamonitrile	0,20 < x < 0,25
Classification					
Hazard Class and Category Code(s), Hazard Statement Code(s)		Supplementary Hazard Statement Code(s)		Pictograms, Signal Word Code(s)	Specific Concentration limits, M-Factors, Acute Toxicity Estimates (ATE)
Acute Tox. 3 H301, Acute Tox. 4 H312, Acute Tox. 4 H332, Skin Sens. 1 H317		--		GHS06 - GHS07 - PERICOLO	STA Orale: 100 mg/kg, STA Cutanea: 1100 mg/kg, STA Inalazione nebbie/polveri: 1,5 mg/l
---	246-430-4	24720-09-0	01-2120105799-47	(E)-1-(2,6,6-trimethyl-2-cyclohexen-1-yl)-2-buten-1-one	0,20 < x < 0,25
Classification					
Hazard Class and Category Code(s), Hazard Statement Code(s)		Supplementary Hazard Statement Code(s)		Pictograms, Signal Word Code(s)	Specific Concentration limits, M-Factors, Acute Toxicity Estimates (ATE)
Acute Tox. 4 H302, Skin Sens. 1 H317, Aquatic Chronic 2 H411		--		GHS07, GHS09 – ATTENZIONE	--
---	939-719-8	5502-75-0	01-2119983532-32	4-isopropylcyclohexylmethanol	0,20 < x < 0,25
Classification					
Hazard Class and Category Code(s), Hazard Statement Code(s)		Supplementary Hazard Statement Code(s)		Pictograms, Signal Word Code(s)	Specific Concentration limits, M-Factors, Acute Toxicity Estimates (ATE)
Skin Irrit. 2, H315; Skin Sens. 1B H317		--		GHS07, ATTENZIONE	--
--	203-161-7	103-95-7	01-2119970582-32	Cyclamen aldehyde	0,20 < x < 0,25
Classification					
Hazard Class and Category Code(s), Hazard Statement Code(s)		Supplementary Hazard Statement Code(s)		Pictograms, Signal Word Code(s)	Specific Concentration limits, M-Factors, Acute Toxicity Estimates (ATE)
Skin Irrit. 2 H315, Skin Sens. 1B H317, Aquatic Chronic 3 H412		--		GHS07 - ATTENZIONE	--

SECTION 4: First aid measures**4.1 Description of first aid measures**

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

Inhalation

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

Skin

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

Eyes

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

Ingestion

SEEK MEDICAL ATTENTION IMMEDIATELY.

Most important symptoms and effects, both acute and delayed

Data not available

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

5.3 Advice for firefighters

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

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

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

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

6.2 Environmental precautions

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

6.3 Methods and material for containment and cleaning up

Collect the product for possible reuse or disposal.

6.4 Reference to other sections

Refer to sections 8 and 13 for more information

SECTION 7: Handling and storage

7.1 Precautions for safe handling

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

7.2 Conditions for safe storage, including any incompatibilities

How to manage risks associated with:

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

How to control the effects of:

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

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

i) stabilisers	Not relevant
ii) antioxidants	Not relevant

Other advice including

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

7.3 Specific end use(s)

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

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Related to the substances contained

Substance:	Cis-2 tertbutylcyclohexyl acetate			
CAS:	20298-69-5			
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/12631			
	DNEL (Workers)		DNEL (Population)	

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Systemic		Local		Systemic		Local		
Long term		Short term		Long term		Short term		
Inhalation	No hazard identified		No hazard identified		Inhalation	No hazard identified		
Dermal	No hazard identified		No hazard identified		Dermal	No hazard identified		
Oral	No hazard identified		No hazard identified		Oral	No hazard identified		
Eyes	No hazard identified		No hazard identified		Eyes	No hazard identified		
PNEC								
Freshwater	0.057 mg/L		Intermittent		Marine water		0.006 mg/L	
STP	10 mg/L		Sediment (freshwater)		Sediment (marine water)		0.762 mg/kg sediment dw	
Air	No hazard identified		Soil		Hazard for predators		no potential to cause toxic effects if accumulated (in higher organisms) via the food chain	

Substance:	Benzaldehyde									
CAS:	100-52-7									
GESTIS International Limit Values										
		Limit value – Eight hours				Limit value – Short term				
		ppm		mg/m ³		ppm		mg/m ³		
Canada - Ontario	--		--		4		17			
Finland	1		4,4		4 (1)		17,4 (1)			
Hungary	--		3,25 (1)		--		--			
Latvia	--		5		--		--			
Poland	--		10		--		40			
Remarks										
(1) Ceiling limit value										
(1) Skin										
Link DNEL value	https://echa.europa.eu/it/registration-dossier/-/registered-dossier/15940									
DNEL (Workers)					DNEL (Population)					
Systemic		Local		Systemic		Local				
Long term		Short term		Long term		Short term		Long term		
Inhalation	9.8 mg/m ³		No hazard identified		9.8 mg/m ³		No hazard identified		Inhalation 4.9 mg/m ³	
Dermal	1.14 mg/kg bw/day		No hazard identified		No hazard identified		1% in mixture (weight basis)		Dermal 0.67 mg/kg bw/day	
Oral	Not available		Not available		Not available		Not available		Oral 0.67 mg/kg bw/day	
Eyes	Not available		Low hazard (no threshold derived)		Eyes		Not available		Low hazard (no threshold derived)	
PNEC										
Freshwater	0 mg/L		Intermittent		0.011 mg/L		Marine water		0 mg/L	
STP	7.59 mg/L		Sediment (freshwater)		0.004 mg/kg sediment dw		Sediment (marine water)		0 mg/kg sediment dw	
Air	No hazard identified		Soil		0.001 mg/kg soil dw		Hazard for predators		No potential for bioaccumulation	

Substance:	p-tolualdehyde / 4-Methylbenzaldehyd									
CAS:	104-87-0									
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/22054									
DNEL (Workers)					DNEL (Population)					
Systemic		Local		Systemic		Local				
Long term		Short term		Long term		Short term		Long term		
Inhalation	Not available		Not available		Inhalation		Not available		Not available	
Dermal	Not available		Not available		Dermal		Not available		Not available	
Oral	Not available		Not available		Oral		Not available		Not available	
Eyes	Not available		Not available		Eyes		Not available		Not available	
PNEC										
Freshwater	Not available		Intermittent		Not available		Marine water		Not available	
STP	Not available		Sediment (freshwater)		Not available		Sediment (marine water)		Not available	
Air	Not available		Soil		Not available		Hazard for predators		Not available	

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										
--										
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		
Inhalation	44.1 mg/L		No hazard identified		Inhalation		13 mg/L		No hazard identified	
Dermal	41.7 mg/kg bw/day		No hazard identified		Dermal		25 mg/kg bw/day		No hazard identified	
Oral	Not available		Not available		Oral		7.5 mg/kg bw/day		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	

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Substance:	Dimethyl phenethyl butyrate						
CAS:	10094-34-5						
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/20823							
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	12.695 mg/m ³	No hazard identified	No hazard identified	Inhalation	3.13 mg/m ³	No hazard identified	No hazard identified
Dermal	3.6 mg/kg bw/day	No hazard identified	No hazard identified	Dermal	1.8 mg/kg bw/day	No hazard identified	No hazard identified
Oral	Not available	Not available	Not available	Oral	1.8 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	4.766 µg/L	Intermittent	Not available	Marine water	No data: aquatic toxicity unlikely		
STP	31.25 mg/L	Sediment (freshwater)	0.189 mg/kg sediment dw	Sediment (marine water)	No hazard identified		
Air	No hazard identified	Soil	0.103 mg/kg soil dw	Hazard for predators	No potential for bioaccumulation		
Substance:	Ethyl hydroxypyrrone / 2-ethyl-3-hydroxy-4-pyrone						
CAS:	4940-11-8						
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/22549						
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	19.7 mg/m ³	hazard unknown but no further hazard information necessary as no exposure expected	hazard unknown but no further hazard information necessary as no exposure expected	Inhalation	3.48 mg/m ³	hazard unknown but no further hazard information necessary as no exposure expected	hazard unknown but no further hazard information necessary as no exposure expected
Dermal	5.6 mg/kg bw/day	No hazard identified	No hazard identified	Dermal	2 mg/kg bw/day	No hazard identified	No hazard identified
Oral	Not available	Not available	Not available	Oral	2 mg/kg bw/day	No hazard identified	Not available
Eyes	Not available	No hazard identified	No hazard identified	Eyes	Not available	No hazard identified	No hazard identified
PNEC							
Freshwater	7.2 µg/L	Intermittent	Not available	Marine water	0.72 µg/L		
STP	1.55 mg/L	Sediment (freshwater)	0.269 mg/kg sediment dw	Sediment (marine water)	0.027 mg/kg sediment dw		
Air	No hazard identified	Soil	0.049 mg/kg soil dw	Hazard for predators	No potential for bioaccumulation		
Substance:	Beta-ionone						
CAS:	14901-07-6						
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/12631						
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	2.498 mg/m ³	No-threshold effect and/or no dose-response information available	No-threshold effect and/or no dose-response information available	Inhalation	0.621 mg/m ³	No-threshold effect and/or no dose-response information available	No-threshold effect and/or no dose-response information available
Dermal	2.191 mg/kg bw/day	No-threshold effect and/or no dose-response information available	No-threshold effect and/or no dose-response information available	Dermal	0.54 mg/kg bw/day	No-threshold effect and/or no dose-response information available	No-threshold effect and/or no dose-response information available
Oral	Not available	Not available	Not available	Oral	4.383 mg/kg bw/day	No-threshold effect and/or no dose-response information available	Not available
Eyes	Not available	Hazard unknown (no further information necessary)	Hazard unknown (no further information necessary)	Eyes	Not available	Hazard unknown (no further information necessary)	Hazard unknown (no further information necessary)
PNEC							
Freshwater	0.001 mg/L	Intermittent	0.015 mg/L	Marine water	0.0 mg/L		
STP	0.043 mg/L	Sediment (freshwater)	22.451 mg/kg sediment dw	Sediment (marine water)	22.451 mg/kg sediment dw		
Air	No hazard identified	Soil	10.466 mg/kg soil dw	Hazard for predators	No potential for bioaccumulation		
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/m ³		ppm	mg/m ³	
		--	--		--	--	
Remarks							
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Link DNEL value	https://echa.europa.eu/it/registration-dossier/-/registered-dossier/14146						

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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	11.14 mg/m ³	No hazard identified	No hazard identified		Inhalation	2.75 mg/m ³	No hazard identified	No hazard identified	
Dermal	3.16 mg/kg bw/day	No hazard identified	190 µg/cm ²	Low hazard (no threshold derived)	Dermal	1.58 mg/kg bw/day	No hazard identified	190 µg/cm ²	Low hazard (no threshold derived)
Oral	Not available		Not available		Oral	1.58 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					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:	Cinnamyl nitrile / Cinnamionitrile								
CAS:	4360-47-8								
GESTIS International Limit Values									
		Limit value - Eight hours				Limit value - Short term			
		ppm		mg/m ³		ppm		mg/m ³	
		--		--		--		--	
		Remarks							
		--							
Link DNEL value	--								
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	Not available		Not available		Inhalation	Not available		Not available	
Dermal	Not available		Not available		Dermal	Not available		Not available	
Oral	Not available		Not available		Oral	Not available		Not available	
Eyes	Not available		Not available		Eyes	Not available		Not available	
PNEC					PNEC				
	Freshwater	Not available		Intermittent	Not available		Marine water	Not available	
	STP	Not available		Sediment (freshwater)	Not available		Sediment (marine water)	Not available	
	Air	Not available		Soil	Not available		Hazard for predators	Not available	
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/m ³		ppm		mg/m ³	
		--		--		--		--	
		Remarks							
		--							
Reference:	https://echa.europa.eu/it/registration-dossier/-/registered-dossier/16823								
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	2.74 mg/m ³	No hazard identified	No hazard identified		Inhalation	0.67 mg/m ³	No hazard identified	No hazard identified	
Dermal	0.78 mg/kg bw/day	No hazard identified	Medium hazard (no threshold derived)		Dermal	0.39 mg/kg bw/day	No hazard identified	No hazard identified	
Oral	Not available		Not available		Oral	0.39 mg/kg bw/day	No hazard identified	Not available	
Eyes	Not available		No hazard identified		Eyes	Not available		No hazard identified	
PNEC					PNEC				
	Freshwater	1.09 µg/L		Intermittent	10.9 µg/L		Marine water	0.11 µg/L	
	STP	3.2 mg/L		Sediment (freshwater)	0.107 mg/kg sediment dw		Sediment (marine water)	0.011 mg/kg sediment dw	
	Air	No hazard identified		Soil	0.021 mg/kg soil dw		Hazard for predators	6.67 mg/kg food	
Substance:	4-isopropylcyclohexylmethanol								
CAS:	5502-75-0								
GESTIS International Limit Values									
		Limit value - Eight hours				Limit value - Short term			
		ppm		mg/m ³		ppm		mg/m ³	
		--		--		--		--	
		Remarks							
		--							
Link ECHA:	https://echa.europa.eu/it/registration-dossier/-/registered-dossier/10142								
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	6.63 mg/m ³	No hazard identified	No hazard identified		Inhalation	1.63 mg/m ³	No hazard identified	No hazard identified	
Dermal	1.88 mg/kg bw/day	No hazard identified	Medium hazard (no threshold derived)		Dermal	0.94 mg/kg bw/day	No hazard identified	Medium hazard (no threshold derived)	
Oral	Not available		Not available		Oral	0.94 mg/kg bw/day	No hazard identified	Not available	
Eyes	Not available		No hazard identified		Eyes	Not available		No hazard identified	
PNEC					PNEC				
	Freshwater	4.4 µg/L		Intermittent	44 µg/L		Marine water	0.44 µg/L	
	STP	1.9 mg/L		Sediment (freshwater)	266 µg/kg sediment dw		Sediment (marine water)	26.6 µg/kg sediment dw	
	Air	No hazard identified		Soil	51 µg/kg soil dw		Hazard for predators	41.78 mg/kg food	
Substance:	Cyclamen aldehyde								
CAS:	103-95-7								
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 --			
Link DNEL value	https://echa.europa.eu/it/registration-dossier/-/registered-dossier/5681		
DNEL (Workers)		DNEL (Population)	
Systemic		Local	
Long term	Short term	Long term	Short term
Inhalation	1.23 mg/m ³ No hazard identified	No hazard identified	No hazard identified
Dermal	0.35 mg/kg bw/day No hazard identified	Low hazard (no threshold derived)	No hazard identified
Oral	Not available	Not available	Not available
Eyes	Not available	No hazard identified	No hazard identified
PNEC		PNEC	
Freshwater	8.8 µg/L	Intermittent	14 µg/L
STP	1 mg/L	Sediment (freshwater)	1.02 mg/kg sediment dw
Air	No hazard identified	Soil	0.199 mg/kg soil dw
		Marine water	0.88 µg/L
		Sediment (marine water)	0.102 mg/kg sediment dw
		Hazard for predators	2 mg/kg food

8.2 Exposure controls

8.2.1 Appropriate engineering controls

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


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

Descriptor for Process 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			
	Eye glasses		Glasses with side shields	Mask glasses	Face shield	
 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	Frontal sketches	Good	Good	Excellent	Excellent
		Side sketches	Scarso	Good	Excellent	Good / Excellent
		Frontal splinters	Excellent	Good	Excellent	Excellent if of adequate thickness
		Side impacts	Scant	Fairly good	Excellent	It depends on the length
		Neck and face protection	Scant	Scant	Scant	Fairly good
		Wearability	Good / Very good	Good	Fairly good	Good (for short periods)
		Continuous use	Very good	Very good	Fairly good	Fairly good
		Acceptability for use	Very good	Good	Scant	Fairly good

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

IN NORMAL USE, NO PERSONAL PROTECTION DEVICES ARE PROVIDED

b) SKIN PROTECTION

i) Hand protection



PITTOGRAM	PPE	METHOD OF CHOOSING THE PPE				
		CHEMICAL PROTECTION				
		Type	Level	Time	Substances	
 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.	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 assess the need to provide protective devices.

USE WATERPROOF GLOVES

ii) other


PITTOGRAM	PPE	METHOD OF CHOOSING THE PPE			
		DANGER	Full coverage garment		Partial coverage garment
	Waterproof		Permeable to air	Waterproof	Permeable to air
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	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

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 <p>Work clothing</p>	<p>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</p>	<p>NO: Indicates that the possibility is not compatible - A: suitable combination - P: combination that depends on external conditions</p> <p>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.</p>	

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

IN NORMAL USE, NO PERSONAL PROTECTION DEVICES ARE PROVIDED


c) RESPIRATORY PROTECTION

 <p>RPD (Respiratory protective devices)</p>	<p>PPE</p> <p>PPE for respiratory protection are of the third category and must be provided with CE marking, the number of the Notified Body that issued the certification and must be provided only after information, training and specific training on their use. To define the type of RPD to use, pay attention to the oxygen rate present in the workplace, using the 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.</p>		<p>METHOD OF CHOOSING THE PPE</p>																																																																															
	<p>FACTORS TO CONSIDER</p> <p>Type of substance</p> <p>Concentrations</p> <p>Visibility</p> <p>Freedom of movement</p> <p>Facial anatomy</p> <p>Environmental conditions</p>		<p>REASON</p> <p>Correct choice of filter type</p> <p>Need / opportunity to protect other parts of the face (eyes - face)</p> <p>Filter capacity in relation to exposure time</p> <p>Reduction of protection</p> <p>Reduction of weight and discomfort</p> <p>Mask adequacy</p>		<p>DUST FILTERS</p> <table border="1"> <thead> <tr> <th>Efficiency</th> <th>Dust class</th> <th>RPD class and marking</th> <th>Minimum total filtering efficiency</th> <th>Protection</th> </tr> </thead> <tbody> <tr> <td>LOW</td> <td>Filters P1</td> <td>Respirators FFP1</td> <td>78%</td> <td>Powders/Harmful aerosol</td> </tr> <tr> <td>AVERAGE</td> <td>Filters P2</td> <td>Respirators FFP2</td> <td>92%</td> <td>Powders/fumes/ low toxicity aerosol</td> </tr> <tr> <td>HIGH</td> <td>Filters P3</td> <td>Respirators FFP3</td> <td>98%</td> <td>Powders/fumes / Harmful aerosol</td> </tr> </tbody> </table> <p>GAS FILTERS</p> <table border="1"> <thead> <tr> <th>Capacity</th> <th>Class</th> <th>Maximum concentration</th> </tr> </thead> <tbody> <tr> <td>Low</td> <td>1</td> <td>Gas / vapor concentrations up to 1000 ppm</td> </tr> <tr> <td>Average</td> <td>2</td> <td>Gas / vapor concentrations up to 5000 ppm</td> </tr> <tr> <td>High</td> <td>3</td> <td>Gas / vapor concentrations up to 10000 ppm</td> </tr> </tbody> </table> <p>TYPE OF FILTERS</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Protection</th> <th>Filter color</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>Organic gases and vapors with a boiling point > 65 ° C</td> <td>BROWN</td> </tr> <tr> <td>B</td> <td>Inorganic gases and vapors</td> <td>GREY</td> </tr> <tr> <td>E</td> <td>Acid gases</td> <td>YELLOW</td> </tr> <tr> <td>K</td> <td>Ammonia and derivatives</td> <td>GREEN</td> </tr> <tr> <td>P</td> <td>Toxic dusts, fumes, mists</td> <td>WHITE</td> </tr> <tr> <td>AX (EN371)</td> <td>Low boiling point organic gases and vapors <65 ° C</td> <td>BROWN</td> </tr> </tbody> </table> <p>DUST FILTER RESPIRATORS</p> <table border="1"> <thead> <tr> <th>Filter respirator</th> <th>Nominal Protection Factor</th> <th>Operational Protection Factor</th> </tr> </thead> <tbody> <tr> <td>Facial Filter FFP1 Half mask + P1</td> <td>4</td> <td>4</td> </tr> <tr> <td>Facial Filter FFP2 Half mask + P2</td> <td>12</td> <td>10</td> </tr> <tr> <td>Facial Filter FFP3 Half mask + P3</td> <td>50</td> <td>30</td> </tr> <tr> <td>Full face + P1</td> <td>5</td> <td>4</td> </tr> <tr> <td>Full face + P2</td> <td>20</td> <td>15</td> </tr> <tr> <td>Full face + P3</td> <td>1000</td> <td>400</td> </tr> </tbody> </table>					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	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	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	Filter respirator	Nominal Protection Factor	Operational Protection Factor	Facial Filter FFP1 Half mask + P1	4	4	Facial Filter FFP2 Half mask + P2	12	10	Facial Filter FFP3 Half mask + P3	50	30	Full face + P1	5	4	Full face + P2	20	15	Full face + P3	1000
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The Head of the Prevention and Protection Service, as well as correctly defining the specific PPE for the activities, must pay attention to follow the instructions provided by the manufacturers of the various PPE.

IN NORMAL USE, NO PERSONAL PROTECTION DEVICES ARE PROVIDED

d) THERMAL HAZARDS

 <p>Hot/Cold</p>	<p>PPE</p> <p>The indications provided in this section define the PPE intended to protect against possible temperature variations that the mixture causes or that the mixture itself may undergo during normal working activities. PPE must protect against excesses in external temperature by maintaining body temperature, thermally insulate while maintaining permeability to water and air to ensure sweating and moisture removal, respectively, so as not to cause heat loss. In order to protect themselves from the cold, PPE must retain a degree of flexibility that allows the operator to perform the necessary actions and to assume certain positions. PPE intended for short-term interventions or likely to receive projections of hot products, must have a calorific capacity sufficient to return most of the stored heat only after the user has removed them.</p>		<p>OBSERVATIONS</p> <p>PPE intended to protect against thermal differences must have an adequate heat flow transmission coefficient to avoid any risk of damage as required by the foreseeable conditions of use.</p> <p>The heat flow transmitted to the operator during the use of PPE must be such that its accumulation does not in any case reach the pain threshold or the one in which any harmful effect on health occurs. PPE must prevent, as far as possible, the penetration of liquids and must not cause injury caused by contact between their protective coating and the operator.</p>																								
	<p>FACTORS TO CONSIDER</p> <p>Type of substance</p> <p>Concentrations</p> <p>Visibility</p> <p>Freedom of movement</p> <p>Facial anatomy</p> <p>Environmental conditions</p>		<p>REASON</p> <p>Correct choice of filter type</p> <p>Need / opportunity to protect other parts of the face (eyes - face)</p> <p>Filter capacity in relation to exposure time</p> <p>Reduction of protection</p> <p>Reduction of weight and discomfort</p> <p>Mask adequacy</p>		<p>DUST FILTER RESPIRATORS</p> <table border="1"> <thead> <tr> <th>Filter respirator</th> <th>Nominal Protection Factor</th> <th>Operational Protection Factor</th> </tr> </thead> <tbody> <tr> <td>Facial Filter FFP1 Half mask + P1</td> <td>4</td> <td>4</td> </tr> <tr> <td>Facial Filter FFP2 Half mask + P2</td> <td>12</td> <td>10</td> </tr> <tr> <td>Facial Filter FFP3 Half mask + P3</td> <td>50</td> <td>30</td> </tr> <tr> <td>Full face + P1</td> <td>5</td> <td>4</td> </tr> <tr> <td>Full face + P2</td> <td>20</td> <td>15</td> </tr> <tr> <td>Full face + P3</td> <td>1000</td> <td>400</td> </tr> </tbody> </table>			Filter respirator	Nominal Protection Factor	Operational Protection Factor	Facial Filter FFP1 Half mask + P1	4	4	Facial Filter FFP2 Half mask + P2	12	10	Facial Filter FFP3 Half mask + P3	50	30	Full face + P1	5	4	Full face + P2	20	15	Full face + P3	1000
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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 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	Red	--
c)	Odour	Characteristic of the fragrance	--
d)	Melting point/freezing point	Not determined	--

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e)	Boiling point or initial boiling point and boiling range	Not determined	--
f)	Flammability	NO	--
g)	Lower and upper explosion limit	Not applicable	Not applicable to solids
h)	Flash point	Not applicable	It does not apply to gases, aerosols and solids
i)	Auto-ignition temperature	Not applicable	Applicable to gases and liquids only
j)	Decomposition temperature	Not applicable	Applicable only to self-reactive substances and mixtures, organic peroxides and other substances and mixtures which can decompose.
k)	pH	Not relevant	Insoluble in water
l)	Kinematic viscosity	Not applicable	It only applies to liquids
m)	Solubility	Insoluble in water	--
n)	Partition coefficient n-octanol/water (log value)	Not applicable	It does not apply to inorganic and ionic liquids and, as a rule, does not apply to mixtures
o)	Vapour pressure	Not determined	--
p)	Density and/or relative density	Not determined	--
q)	Relative vapour density	Not determined	--
r)	Particle characteristics	Not determined	--

9.2 Other information

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

9.2.2 Other safety characteristics

Other physical and chemical parameters:

COV (Directive 2010/75 / EC) : 2,8 %

SECTION 10: Stability and reactivity

10.1 Reactivity

Stable under normal conditions of use and storage.

10.2 Chemical stability

Stable under normal conditions of use and storage.

10.3 Possibility of hazardous reactions

None known under normal conditions of use.

10.4 Conditions to avoid

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

10.5 Incompatible materials

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

10.6 Hazardous decomposition products

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

SECTION 11: Toxicological information

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

Hazard classes		Information
a)	acute toxicity	: Not classified. based on available data, the classification criteria are not met.
b)	skin corrosion/irritation	: Not classified. based on available data, the classification criteria are not met.
c)	serious eye damage/irritation	: Not classified. based on available data, the classification criteria are not met.
d)	respiratory or skin sensitisation	: In contact with the skin, it can 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.

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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: Cis-2 tertbutylcyclohexyl acetate					
CAS: 20298-69-5					
ORAL		INHALATION		SKIN	
Rat LD50: 4600 mg/kg bw		--		Rabbit LD50: >5000 mg/kg bw	
NOTES --					
The values entered in this section are those available, at the time of writing this SDS, in the ECHA dossier in the Toxicological information section or from the supplier's indications.					
Substance: Benzaldehyde					
CAS: 100-52-7					
ORAL		INHALATION		SKIN	
Rat LD50: 1430 mg/kg bw		Rat LC50: 1000 mg/m ³ air		Rabbit LD50: 2000 mg/kg bw	
NOTES --					
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 by the body by inhalation of its vapours, through the skin and by ingestion.					
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 °C.					
Effects of short-term exposure The substance is irritating to the eyes.					
Effects of long-term or repeated exposure --					
ACUTE HAZARDS/SYMPOMS					
Inhalation Cough. Sore throat.					
Skin Redness.					
Eyes Redness. Pain.					
Ingestion Dry mouth.					
Notes Rinse clothing contaminated with plenty of water due to fire risk. Check for peroxides before distillation; discard if found.					
Substance: p-tolualdehyde / 4-Methylbenzaldehyd					
CAS: 104-87-0					
ORAL		INHALATION		SKIN	
Rat LD50: 1000 mg/kg bw		--		--	
NOTES --					
The values entered in this section are those available, at the time of writing this SDS, in the ECHA dossier in the Toxicological information section or from the supplier's indications.					
Substance: Tetrahydro-merhyl-methylpropyl)-pyran-4-ol					
CAS: 63500-71-0					
ORAL		INHALATION		SKIN	
Rat LD50: > 2000 mg/kg bw		--		Rabbit LD50: > 2000 mg/kg bw	
NOTES --					
The values entered in this section are those available, at the time of writing this SDS, in the ECHA dossier in the Toxicological information section or from the supplier's indications.					
Substance: Dimethyl phenethyl butyrate					
CAS: 10094-34-5					
ORAL		INHALATION		SKIN	
Rat LD50: 3300 mg/kg bw		--		Rabbit LD50: 3000 mg/kg bw	
NOTES --					
The values entered in this section are those available, at the time of writing this SDS, in the ECHA dossier in the Toxicological information section or from the supplier's indications.					
Substance: Ethyl hydroxypyron / 2-ethyl-3-hydroxy-4-pyron					
CAS: 4940-11-8					
ORAL		INHALATION		SKIN	
Rat LD50: 1220 mg/kg bw		--		Rabbit LD50: 5000 mg/kg bw	
NOTES --					
The values entered in this section are those available, at the time of writing this SDS, in the ECHA dossier in the Toxicological information section or from the supplier's indications.					
Substance: Beta-ionone					
CAS: 14901-07-6					
ORAL		INHALATION		SKIN	
Rat LD50: 4590 mg/kg bw		Mouse LC50: 538.488 mg/m ³ air		Mouse LD50: 7000 mg/kg bw	
NOTES --					
The values entered in this section are those available, at the time of writing this SDS, in the ECHA dossier in the Toxicological information section or from the supplier's indications.					
Substance: Tetrahydroinalool / 3,7-dimethyloctan-3-ol					
CAS: 78-69-3					
ORAL		INHALATION		SKIN	
Rat LD50: 4600 mg/kg bw		--		Rabbit LD50: >5000 mg/kg bw	
NOTES --					
The values entered in this section are those available, at the time of writing this SDS, in the ECHA dossier in the Toxicological information section or from the supplier's indications.					
Substance: (E)-1-(2,6,6-trimethyl-2-cyclohexen-1-yl)-2-buten-1-one					
CAS: 24720-09-0					
ORAL		INHALATION		SKIN	
Rat LD50: 1670 mg/kg bw		--		Rat LD50: 2900 mg/kg bw	
NOTES --					
The values entered in this section are those available, at the time of writing this SDS, in the ECHA dossier in the Toxicological information section or from the supplier's indications.					
Substance: 4-isopropylcyclohexylmethanol					
CAS: 5502-75-0					
ORAL		INHALATION		SKIN	
Rat LD50: > 10000 mg/kg bw		--		Rabbit LD50: > 2000 mg/kg bw	
NOTES --					
The values entered in this section are those available, at the time of writing this SDS, in the ECHA dossier in the Toxicological information section or from the supplier's indications.					
Substance: Cyclamen aldehyde					
CAS: 103-95-7					
ORAL		INHALATION		SKIN	
Rat LD50: 3180 mg/kg bw		--		Rat LD50: >5000 mg/kg bw	
NOTES --					
The values entered in this section are those available, at the time of writing this SDS, in the ECHA dossier in the Toxicological information section or from the supplier's indications.					

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

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

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11.2.2 Other information

No further data available

SECTION 12: Ecological information

12.1 Toxicity

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

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

Ecotoxicological information specific to the substances contained

Substance:	Cis-2 tertbutylcyclohexyl acetate		
CAS:	20298-69-5		
LC50 – fish	96h - 5.6 mg/L	Species :	Danio rerio
EC50 – aquatic invertebrates	48h - 17mg/L	Species :	Daphnia Magna
EC50 - aquatic algae and cyanobacteria	72h - 4.2 mg/L	Species :	Desmodesmus subspicatus
NOEC chronic fish	96h - - mg/L	Species :	- -
NOEC chronic invertebrates	48h - - mg/L	Species :	- -
NOEC chronic algae and cyanobacteria	72h - 0.57 mg/L	Species :	Desmodesmus subspicatus
Guidelines :			OECD203
Guidelines :			OECD202
Guidelines :			OECD201
Guidelines :			- -
Guidelines :			- -
Guidelines :			OECD201
Substance:	Benzaldehyde		
CAS:	100-52-7		
LC50 – fish	96h – 1.07 mg/L	Species :	Pimephales promelas
EC50 – aquatic invertebrates	48h – 19.7 mg/L	Species :	Daphnia Magna
ERL50 - algae and cyanobacteria	96h – 8.05 mg/L	Species :	Pseudokirchneriella subcapitata
NOEC Cronica fish	- -	Species :	- -
NOEC Cronica aquatic invertebrates	- -	Species :	- -
NOEC Cronica algae and cyanobacteria	96h – 0.021 mg/L	Species :	Pseudokirchneriella subcapitata
Guideline :			OECD203
Guideline :			OECD202
Guideline :			OECD Guideline 201
Guideline :			- -
Guideline :			- -
Guideline :			OECD Guideline 201
Substance:	Tetrahydro-merhyl-methylpropyl)-pyran-4-ol		
CAS:	63500-71-0		
LC50 – fish	96h-354 mg/L	Species :	Oncorhynchus mykiss
EC50 – aquatic invertebrates	48h-320 mg/L	Species :	Daphnia magna
EC50 - aquatic algae and cyanobacteria	72h- >100 mg/L	Species :	Desmodesmus subspicatus
NOEC chronic fish	- -	Species :	- -
NOEC chronic invertebrates	- -	Species :	- -
NOEC chronic algae and cyanobacteria	- -	Species :	- -
Guidelines :			OCSE 203
Guidelines :			OCSE 202
Guidelines :			OCSE 201
Guidelines :			- -
Guidelines :			- -
Guidelines :			- -
Substance:	Dimethyl phenethyl butyrate		
CAS:	10094-34-5		
LC50 – fish	96 h - 8.901 mg/L	Species :	- -
EC50 – aquatic invertebrates	48 h – 15.4 mg/L	Species :	Daphnia magna
EC50 - aquatic algae and cyanobacteria	96 h – 4.766 mg/L	Species :	- -
NOEC chronic fish	- -	Species :	- -
NOEC chronic invertebrates	- -	Species :	- -
NOEC chronic algae and cyanobacteria	- -	Species :	- -
Guidelines :			- -
Guidelines :			OECD202
Guidelines :			- -
Guidelines :			- -
Guidelines :			- -
Guidelines :			- -
Substance:	Ethyl hydroxypyrrone / 2-ethyl-3-hydroxy-4-pyrone		
CAS:	4940-11-8		
LC50 – fish	96h – > 85 mg/L	Species :	Oncorhynchus mykiss
EC50 – aquatic invertebrates	48h – 27 mg/L	Species :	Daphnia Magna
EC50 - aquatic algae and cyanobacteria	72h – 7.2 mg/L	Species :	Pseudokirchneriella subcapitata
NOEC chronic fish	- -	Species :	- -
NOEC chronic invertebrates	- -	Species :	- -
NOEC chronic algae and cyanobacteria	72h – 1.8 mg/L	Species :	Pseudokirchneriella subcapitata
Guidelines :			OECD203
Guidelines :			OECD202
Guidelines :			OECD201
Guidelines :			- -
Guidelines :			- -
Guidelines :			OECD201
Substance:	Beta-ionone		
CAS:	14901-07-6		
LC50 – fish	96h - 2.571 mg/L	Species :	Oryzias latipes
EC50 – aquatic invertebrates	48h - 1.641mg/L	Species :	Daphnia Magna
EC50 - aquatic algae and cyanobacteria	72h - 3.223 mg/L	Species :	Pseudokirchneriella subspicatus
NOEC chronic fish	96h - - mg/L	Species :	- -
NOEC chronic invertebrates	48h - - mg/L	Species :	- -
NOEC chronic algae and cyanobacteria	72h - 0.656 mg/L	Species :	Pseudokirchneriella subspicatus
Guidelines :			OECD203
Guidelines :			OECD202
Guidelines :			OECD201
Guidelines :			- -
Guidelines :			- -
Guidelines :			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 Cronica algae and cyanobacteria	- -	Species :	- -
Guideline :			OECD 203
Guideline :			OECD 202
Guideline :			OECD 201
Guideline :			- -
Guideline :			- -
Guideline :			- -
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
EC50 – aquatic invertebrates	48h: 2.37 mg/L	Species:	Daphnia magna
EC50 - algae and cyanobacteria	72h: 5 mg/L	Species:	Algae spp.
NOEC Cronica fish	- -	Species:	- -
NOEC Cronica aquatic invertebrates	- -	Species:	- -
NOEC Cronica algae and cyanobacteria	- -	Species:	- -
Guideline:			JIS K 0102-1998-71
Guideline:			OECD202
Guideline:			OECD201
Guideline:			- -
Guideline:			- -
Guideline:			- -
Substance:	4-isopropylcyclohexylmethanol		
CAS:	5502-75-0		
LC50 – fish	96h-4.2 mg/L	Species :	Oncorhynchus mykiss
Guideline :			OECD203

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EC50 – aquatic invertebrates	48h-13 mg/L	Species : Daphnia magna	Guideline : OECD202
ERL50 - algae and cyanobacteria	72h-10 mg/L	Species : Pseudokirchnerella subcapitata	Guideline : OECD201
NOEC Cronica fish	--	Species : --	Guideline : --
NOEC Cronica aquatic invertebrates	48h-5.6 mg/L	Species : Daphnia magna	Guideline : OECD 211
NOErL Cronica algae and cyanobacteria	72h-5.2 mg/L	Species : Pseudokirchnerella subcapitata	Guideline : OECD201
Substance: Cyclamen aldehyde			
CAS: 103-95-7			
LC50 – fish	96h – 2.49 mg/L	Species : --	Guideline : ECOSAR v2.0
EC50 – aquatic invertebrates	48h – 1.4 mg/L	Species : Daphnia Magna	Guideline : OECD202
ERL50 - algae and cyanobacteria	96h – 4.3 mg/L	Species : Pseudokirchnerella subcapitata	Guideline : OECD201
NOEC Cronica fish	--	Species : --	Guideline : --
NOEC Cronica aquatic invertebrates	--	Species : --	Guideline : --
NOErL Cronica algae and cyanobacteria	96h – 2.6 mg/L	Species : Pseudokirchnerella subcapitata	Guideline : OECD201

12.2 Persistence and degradability

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

Specific biodegradation information for the substances contained

Substance: Cis-2 tertbutylcyclohexyl acetate			
CAS: 20298-69-5			
Biodegradation in water:	Not readily biodegradable	Test time :	28d
Substance: Benzaldehyde			
CAS: 100-52-7			
Biodegradation in water:	Easily biodegradable	Test time :	10d
Substance: p-tolualdehyde / 4-Methylbenzaldehyd			
CAS: 104-87-0			
Biodegradation in water:	Easily biodegradable	Test time :	28d
Substance: Tetrahydro-merhyl-methylpropyl)-pyran-4-ol			
CAS: 63500-71-0			
Biodegradation in water:	Not readily biodegradable	Test time :	--
Substance: Dimethyl phenethyl butyrate			
CAS: 10094-34-5			
Biodegradation in water:	Easily biodegradable	Test time :	28d
Substance: Ethyl hydroxypyron / 2-ethyl-3-hydroxy-4-pyron			
CAS: 4940-11-8			
Biodegradation in water:	Easily biodegradable	Test time:	28d
Substance: Beta-ionone			
CAS: 14901-07-6			
Biodegradation in water:	Easily biodegradable	Test time :	28d
Substance: Tetrahydroinalool / 3,7-dimethyloctan-3-ol			
CAS: 78-69-3			
Biodegradation in water:	Easily 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 :	--
Substance: 4-isopropylcyclohexylmethanol			
CAS: 5502-75-0			
Biodegradation in water:	Easily biodegradable	Test time :	28d
Substance: Cyclamen aldehyde			
CAS: 103-95-7			
Biodegradation in water:	Easily biodegradable	Test time :	28d

12.3 Bioaccumulative potential

Data not available for the mixture.

Bioaccumulation information specific to the substances contained

Substance: Cis-2 tertbutylcyclohexyl acetate			
CAS: 20298-69-5			
Partition coefficient: n-octanol / water	:	Log Kow (Log Pow): 4.75 a 25°C	
BCF	:	156 L/kg ww	
Substance: Benzaldehyde			
CAS: 100-52-7			
Partition coefficient: octanol/water :		Log Kow (Log Pow): 1.4 at 25°C	
BCF	:	The study should not be conducted because the substance has a low bioaccumulation potential log Kow ≤3	
Substance: p-tolualdehyde / 4-Methylbenzaldehyd			
CAS: 104-87-0			
Partition coefficient: octanol/water :		Log Kow (Log Pow): 2.25	
BCF	:	The study should not be conducted because the substance has a low bioaccumulation potential log Kow ≤3	
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:	Dimethyl phenethyl butyrate
CAS:	10094-34-5
Partition coefficient: n-octanol / water	: Log Kow (Log Pow): 4.7 at 25°C
BCF	: Not considered necessary to conduct the study because direct and indirect exposure in the aquatic compartment is unlikely.
Substance:	Ethyl hydroxypyrene / 2-ethyl-3-hydroxy-4-pyrone
CAS:	4940-11-8
Partition coefficient: n-octanol / water	: Log Kow (Log Pow): 2.9 at 25°C
BCF	: 232 L/kg ww
Substance:	Beta-ionone
CAS:	14901-07-6
Partition coefficient: n-octanol/water	: Log Kow (Log Pow): 1.903 a 27°C
BCF	: 159 adimensional
Substance:	Tetrahydroinalool / 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:	(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
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:	Cyclamen aldehyde
CAS:	103-95-7
Partition coefficient: n-octanol / water	: Log Kow (Log Pow): 3.4 a 35°C
BCF	: 102 L/kg ww

12.4 Mobility in soil

No data available.

Mobility information in soil specific to the substances contained

Substance:	Cis-2 tertbutylcyclohexyl acetate
CAS:	20298-69-5
Koc at 20 °C: 1300 [LogKoc: 3.12 at 35 °C.]	
Substance:	Benzaldehyde
CAS:	100-52-7
Koc a 20 °C: 56 (LogKoc: 3.12)	
Study not conducted due to low partition coefficient of test substance.	
Substance:	Tetrahydro-merhyl-methylpropyl)-pyran-4-ol
CAS:	63500-71-0
Log Koc: 1.62 – The substance is not expected to be absorbed by soil.	
Substance:	Dimethyl phenethyl butyrate
CAS:	10094-34-5
Koc: 746.3 L/kg [= LogKoc: 2.873] - Due to the relatively low Koc value, no significant adsorption is expected in soil.	
Substance:	Ethyl hydroxypyrene / 2-ethyl-3-hydroxy-4-pyrone
CAS:	4940-11-8
Koc at 20 °C: 337 [= LogKoc: 2.53]	
Substance:	Beta-ionone
CAS:	14901-07-6
Koc at 20 °C: 672.56	
Substance:	Tetrahydroinalool / 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:	(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]	
Substance:	4-isopropylcyclohexylmethanol
CAS:	5502-75-0
Koc a 20 °C: 569 [=logKoc: 2.76]	
Substance:	Cyclamen aldehyde
CAS:	103-95-7
Koc at 20 °C: 1 122 [log Koc = 3.05]	

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.

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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) : HP13 – Sensitising - HP14 - Ecotoxic
 RECOVERY OPERATIONS (Directive 2008/98 / EC) : R13 - Storage of waste pending any of the operations numbered R 1 to R 12 (excluding temporary storage, pending collection, on the site where the waste is produced)
 DISPOSAL OPERATIONS (Directive 2008/98 / EC) : D13 - Blending or mixing prior to submission to any of the operations numbered D 1 to D 12
 EER CODE : 20 01 39 Plastics

Methods for handling any contaminated packaging:

DANGER FEATURES (Directive 2008/98 / EC) : HP13 – Sensitising - HP14 - Ecotoxic
 RECOVERY OPERATIONS (Directive 2008/98 / EC) : R13 - Storage of waste pending any of the operations numbered R 1 to R 12 (excluding temporary storage, pending collection, on the site where the waste is produced)
 DISPOSAL OPERATIONS (Directive 2008/98 / EC) : D13 - Blending or mixing prior to submission to any of the operations numbered D 1 to D 12
 EER CODE : 15 01 02 plastic packaging

Physical / chemical properties that can affect waste treatment:

None known

Special precautions for recommended waste treatment:

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

SECTION 14: Transport information

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

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

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

SECTION 15: Regulatory information

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

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

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

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

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

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

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

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

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

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

Product: RED CHERRY BLOSSOM

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

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SECTION 16: Other information

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

No chapter has been modified as this sheet is the first issue.

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

Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Acute tox. 4	Acute toxicity (oral), Hazard Category 4
Eye Irrit. 2	Serious eye damage/eye irritation, Hazard Category 2
Skin Irrit. 2	Skin corrosion/irritation, Hazard Category 2
Skin Sens. 1B	Sensitisation — Skin, hazard category 1B
Acute Tox. 3	Acute toxicity (oral), Hazard Category 3
Acute tox. 4	Acute toxicity (dermal), Hazard Category 4
Acute tox. 4	Acute toxicity (inhal.), Hazard Category 4
Skin Sens. 1	Sensitisation — Skin, hazard category 1
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
*	Annex VI, section 1.2.1 – Minimum classification

Description of the hazard statements set out in section 3

H411 =	Toxic to aquatic life with long lasting effects
H302 =	Harmful if swallowed.
H319 =	Causes serious eye irritation.
H315 =	Causes skin irritation
H317 =	May cause an allergic skin reaction.
H301 =	Toxic if swallowed.
H312 =	Harmful in contact with skin.
H332 =	Harmful if inhaled.
H317 =	May cause an allergic skin reaction.
H412 =	Harmful to aquatic life with long lasting effects

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.dguv.de/ifa/...../limit-values-austria/index-2.jsp	https://www.jusline.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/bg/	
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
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.gcsf.gr/	
HUN	Hungary	https://www.dguv.de/ifa/...../limit-values-hungary/index-2.jsp	https://www.biztonsagadatlap.hu/...../5_2020-11-6-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-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.nhfc.gov.cn/zhuzy/pvl/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	

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Current revision date: 05/10/2022		Current revision number: 00	Previous revision date: -/-/-	Previous revision number: -
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/.../hvgieniska-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		
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	

(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. 1A	Presence of component in concentration equal to or greater than the defined limit - Annex I, section 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
- 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