

Mr&Mrs FRAGRANCE	MATERIAL SAFETY DATA SHEET		BIG JOY
	LIGHT BLUE FLOWERS & CITRUS		
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 : LIGHT BLUE FLOWERS & CITRUS
 UFI : NSCO-40E3-P00E-27NM
 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. 1A, 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: Tetramethyl Acetyloctahydronaphthalenes, Linalyl acetate, Acetylcedrene, Limonene, Linalool, Cyclamen adehyde, Isolongifolanone, Isoeugenol, Citronello.

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. %
---	236-757-0	13475-82-6	01-2119490725-29	2,2,4,6,6-pentamethylheptane (INCI: Isododecane)	2,0 ≤ x < 2,5
Hazard Class and Category Code(s), Hazard Statement Code(s)			Classification	Pictograms, Signal Word Code(s)	Specific Concentration limits, M-Factors, Acute Toxicity Estimates (ATE)
Flam. Liq. 3 H226, Asp. Tox 1 H304, Aquatic Chronic 4 H413			EUH066	GHS02, GHS08 - DANGER	--
---	200-4456-2	60-12-8	01-2119963921-31	Phenethyl alcohol	1,5 < x < 2,0
Hazard Class and Category Code(s), Hazard Statement Code(s)			Classification	Pictograms, Signal Word Code(s)	Specific Concentration limits, M-Factors, Acute Toxicity Estimates (ATE)
Eye Irrit. 2 H319			--	GHS07, WARNING	--
---	915-730-3	54464-57-2	01-2119489989-04	Tetramethyl acetyloctahydronaphthalenes	1,0 < x < 1,5
Hazard Class and Category Code(s), Hazard Statement Code(s)			Classification	Pictograms, Signal Word Code(s)	Specific Concentration limits, M-Factors, Acute Toxicity Estimates (ATE)
Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 2 H411			--	GHS07, GHS09 - WARNING	--
603-212-00-7	214-946-9	1222-05-5	01-2119488227-29	Hexamethylindanopyran	0,35 < x < 0,40
Hazard Class and Category Code(s), Hazard Statement Code(s)			Classification	Pictograms, Signal Word Code(s)	Specific Concentration limits, M-Factors, Acute Toxicity Estimates (ATE)
Aquatic Acute 1, H400 - Aquatic Chronic 1, H410			--	GHS09 - WARNING	M=1
---	204-116-4	115-95-7	01-2119454789-19	Linalyl acetate	0,35 < x < 0,40
Hazard Class and Category Code(s), Hazard Statement Code(s)			Classification	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 - WARNING	--
---	251-020-3	32388-55-9	01-2119969651-28	Methyl cedryl ketone / Acetylcedrene	0,35 < x < 0,40
Hazard Class and Category Code(s), Hazard Statement Code(s)			Classification	Pictograms, Signal Word Code(s)	Specific Concentration limits, M-Factors, Acute Toxicity Estimates (ATE)
Skin Sens. 1B H317, Aquatic Acute 1 H400, Aquatic Chronic 1 H410			EUH066	GHS07 - WARNING	M acute=1, M chronic=1
601-029-00-7	227-813-5	5989-27-5	01-2119529223-47	d-limonene / (R)-p-mentha-1,8-diene	0,35 < x < 0,40
Hazard Class and Category Code(s), Hazard Statement Code(s)			Classification	Pictograms, Signal Word Code(s)	Specific Concentration limits, M-Factors, Acute Toxicity Estimates (ATE)
Flam. Liq. 3 H226, Asp. Tox. 1 H304, Skin Irrit. 2 H315, Skin Sens. 1 H317, Eye Irrit. 2 H319, Aquatic Acute 1 H400, Aquatic Chronic 3 H412			--	GHS02, GHS07, GHS09 - WARNING	M=1
603-235-00-2	201-134-4	78-70-6	01-2119474016-42	Linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool	0,25 < x < 0,30
Hazard Class and Category Code(s), Hazard Statement Code(s)			Classification	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 - WARNING	--
---	203-161-7	103-95-7	01-2119970582-32	Cyclamen aldehyde	0,20 < x < 0,25
Hazard Class and Category Code(s), Hazard Statement Code(s)			Classification	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 - WARNING	--
---	245-890-3	23787-90-8	01-2120136162-69	Isolongifolanone	0,20 < x < 0,25
Hazard Class and Category Code(s), Hazard Statement Code(s)			Classification	Pictograms, Signal Word Code(s)	Specific Concentration limits, M-Factors, Acute Toxicity Estimates (ATE)
Skin Irrit. 2 H315, Skin Sens. 1B H317, Aquatic Chronic 2 H411			--	GHS07, GHS09, WARNING	--
604-094-00-X	202-590-7	97-54-1	--	Isoeugenol	0,20 < x < 0,25
Hazard Class and Category Code(s), Hazard Statement Code(s)			Classification	Pictograms, Signal Word Code(s)	Specific Concentration limits, M-Factors, Acute Toxicity Estimates (ATE)
Skin Sens. 1A H317			--	GHS07 - WARNING	Skin Sens. 1A H317: ≥ 0,01%
---	203-375-0	106-22-9	01-2119453995-23	Citronellol	0,15 < x < 0,20
Hazard Class and Category Code(s), Hazard Statement Code(s)			Classification	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 - WARNING	--

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:	2,2,4,6,6-pentamethylheptane (INCI: Isododecane)			
CAS:	13475-82-6			
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/2110				

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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	No hazard identified		No hazard identified		Inhalation	No hazard identified		No hazard identified	
Dermal	No hazard identified		No hazard identified		Dermal	No hazard identified		No hazard identified	
Oral	Not available		Not available		Oral	No hazard identified		Not available	
Eyes	Not available		No hazard identified		Eyes	Not available		No hazard identified	
PNEC				PNEC					
	Freshwater	No data available: testing technically not feasible		Intermittent	No data available: testing technically not feasible		Marine water	No data available: testing technically not feasible	
	STP	No data available: testing technically not feasible		Sediment (freshwater)	No data available: testing technically not feasible		Sediment (marine water)	No data available: testing technically not feasible	
	Air	No hazard identified		Soil	No data available: testing technically not feasible		Hazard for predators	No data available: testing technically not feasible	

Substance:	Phenethyl alcohol								
CAS:	60-12-8								
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/13615								
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	59.9 mg/m ³	No hazard identified	Hazard unknown but no further hazard information necessary as no exposure expected		Inhalation	17.7 mg/m ³	No hazard identified	Hazard unknown but no further hazard information necessary as no exposure expected	
Dermal	21.2 mg/kg bw/day	No hazard identified	No hazard identified		Dermal	12.7 mg/kg bw/day	No hazard identified	No hazard identified	
Oral	Not available	Not available	Not available		Oral	5.1 mg/kg bw/day	Not available	Not available	
Eyes	Not available	Medium hazard (no threshold derived)		Eyes	Not available	Medium hazard (no threshold derived)			
PNEC									
	Freshwater	0.215 mg/L		Intermittent	2.15 mg/L		Marine water	0.021 mg/L	
	STP	10 mg/L		Sediment (freshwater)	1.454 mg/kg sediment dw		Sediment (marine water)	0.145 mg/kg sediment dw	
	Air	No hazard identified		Soil	0.164 mg/kg soil dw		Hazard for predators	No potential for bioaccumulation	

Substance:	Tetramethyl acetyloctahydronaphthalenes								
CAS:	54464-57-2								
GESTIS International Limit Values									
Limit value - Eight hours				Limit value - Short term					
	ppm		mg/m ³		ppm		mg/m ³		
	--		--		--		--		
Remarks									
--									
https://echa.europa.eu/it/registration-dossier/-/registered-dossier/15069									
DNEL (Workers)				DNEL (Population)					
Systemic		Local		Systemic		Local			
	Long term	Short term	Long term	Short term	Long term	Short term	Long term	Short term	
Inhalation	30 mg/m ³	no hazard identified	no hazard identified		Inhalation	9 mg/m ³	no hazard identified	no hazard identified	
Dermal	28.7 mg/kg bw/day	no hazard identified	648 µg/cm ²	low hazard (no threshold derived)	Dermal	17.2 mg/kg bw/day	no hazard identified	380 µg/cm ²	low hazard (no threshold derived)
Oral	Not available	Not available		Oral	3 mg/kg bw/day	no hazard identified	Not available		
Eyes	Not available	no hazard identified		Eyes	Not available	no hazard identified			
PNEC									
	Freshwater	4.4 µg/L		Intermittent	Not available		Marine water	0.44 µg/L	
	STP	10 mg/L		Sediment (freshwater)	3.73 mg/kg sediment dw		Sediment (marine water)	0.75 mg/kg sediment dw	
	Air	no hazard identified		Soil	2.7 mg/kg soil dw		Hazard for predators	26.7 mg/kg food	

Substance:	Hexamethylindanopyran								
CAS:	1222-05-5								
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/14504									
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	13.5 mg/L	No hazard identified	No hazard identified		Inhalation	4 mg/L	No hazard identified	No hazard identified	
Dermal	36.7 mg/kg bw/day	No hazard identified	No hazard identified		Dermal	22 mg/kg bw/day	No hazard identified	No hazard identified	
Oral	Not available	Not available		Oral	2.3 mg/kg bw/day	No hazard identified	Not available		
Eyes	Not available	No hazard identified		Eyes	Not available	No hazard identified			
PNEC									
	Freshwater	6.8 µg/L		Intermittent	Not available		Marine water	0.44 µg/L	
	STP	1 mg/L		Sediment (freshwater)	2 mg/kg/sediment		Sediment (marine water)	0.394 mg/kg/sediment	
	Air	No hazard identified		Soil	1.5 mg/kg soil		Hazard for predators	20.4 g/kg food	

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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		236.2 µg/cm ²
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		Hazard for predators		No potential for bioaccumulation	
Substance:	Methyl cedryl ketone / Acetylcedrene								
CAS:	32388-55-9								
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/12524									
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	1.17 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	0,29 mg/m ³	Hazard unknown but no further hazard information necessary as no exposure expected	
Dermal	0,333 mg/kg bw/day	Hazard unknown but no further hazard information necessary as no exposure expected		Medium hazard (no threshold derived)		Dermal	0,167 mg/kg bw/day	Hazard unknown but no further hazard information necessary as no exposure expected	
Oral	Not available		Not available		Oral	0,167 mg/kg bw/day	Hazard unknown but no further hazard information necessary as no exposure expected		Not available
Eyes	Not available		No hazard identified		Eyes	Not available		No hazard identified	
PNEC									
Freshwater		1.74 µg/L	Intermittent		8.6 µg/L	Marine water		0.174 µg/L	
STP		10 mg/L	Sediment (freshwater)		24.4 mg/kg/sediment	Sediment (marine water)		2.44 mg/kg/sediment	
Air		No hazard identified		Soil		Hazard for predators		no potential to cause toxic effects if accumulated (in higher organisms) via the food chain	
Substance:	d-Limonene								
CAS:	5989-27-5								
GESTIS International Limit Values									
		Limit value - Eight hours			Limit value - Short term				
		ppm	mg/m ³		ppm	mg/m ³			
Finland		25	140		50 (1)	280 (1)			
Germany (AGS)		5	28		20 (1)	110 (1)			
Germany (DFG)		5	28		20 (1)	112 (1)			
Switzerland		7	40		14 (1)	80 (1)			
		Remarks							
Finland		(1) 15 minutes average value							
Germany (AGS)		(1) 15 minutes reference period							
Germany (DFG)		(1) 15 minutes average value							
Switzerland		(1) 15 minutes average value							
https://echa.europa.eu/it/registration-dossier/-/registered-dossier/15256									
DNEL (Workers)				DNEL (Population)					
		Systemic		Local		Systemic		Local	
		Long term	Short term	Long term	Short term	Long term	Short term	Long term	Short term
Inhalation	66.7 mg/m ³	No hazard identified		No hazard identified		Inhalation	16.6 mg/m ³	No hazard identified	
Dermal	9.5 mg/kg bw/day	No hazard identified		Medium hazard (no threshold derived)		Dermal	4.8 mg/kg bw/day	No hazard identified	
Oral	Not available		Not available		Oral	Not available	4.8 mg/kg bw/day		No hazard identified
Eyes	Not available		No hazard identified		Eyes	Not available		Not available	
PNEC									
Freshwater		14 µg/L	Intermittent		Not available	Marine water		1.4 µg/L	
STP		1,8 mg/L	Sediment (freshwater)		3.85 mg/kg sediment dw	Sediment (marine water)		0.385 mg/kg sediment dw	
Air		No hazard identified		Soil		Hazard for predators		133 mg/kg food	
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 --									
https://echa.europa.eu/it/registration-dossier/-/registered-dossier/14501									
DNEL (Workers)					DNEL (Population)				
Systemic		Local			Systemic		Local		
	Long term	Short term	Long term	Short term		Long term	Short term	Long term	Short term
Inhalation	24.58 mg/m ³	No hazard identified	Low hazard (no threshold derived)		Inhalation	4.33 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		Dermal	1.25 mg/kg bw/day	No hazard identified	1.5 mg/cm ²	
Oral	Not available		Not available		Oral	2.49 mg/kg bw/day	No hazard identified	Not available	
Eyes	Not available		Low hazard (no threshold derived)		Eyes	Not available		Low hazard (no threshold derived)	
PNEC									
Freshwater	0.2 mg/L	Intermittent			2 mg/L	Marine water		0.02 mg/L	
STP	10 mg/L	Sediment (freshwater)			2.22 mg/kg sediment dw	Sediment (marine water)		0.222 mg/kg sediment dw	
Air	Not available		Soil		0.327 mg/kg soil dw	Hazard for predators		7.8 mg/kg food	
Substance:	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		
	--	--				--	--		
Remarks --									
Link DNEL value	https://echa.europa.eu/it/registration-dossier/-/registered-dossier/5681								
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	1.23 mg/m ³	No hazard identified	No hazard identified		Inhalation	0.22 mg/m ³	No hazard identified	No hazard identified	
Dermal	0.35 mg/kg bw/day	No hazard identified	Low hazard (no threshold derived)		Dermal	0.13 mg/kg bw/day	No hazard identified	Low hazard (no threshold derived)	
Oral	Not available		Not available		Oral	0.13 mg/kg bw/day	No hazard identified	Not available	
Eyes	Not available		No hazard identified		Eyes	Not available		No hazard identified	
PNEC									
Freshwater	8.8 µg/L	Intermittent			14 µg/L	Marine water		0.88 µg/L	
STP	1 mg/L	Sediment (freshwater)			1.02 mg/kg sediment dw	Sediment (marine water)		0.102 mg/kg sediment dw	
Air	No hazard identified		Soil		0.199 mg/kg soil dw	Hazard for predators		2 mg/kg food	
Substance:	Isolongifolanone								
CAS:	23787-90-8								
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/18407								
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									
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:	Isoeugenol								
CAS:	97-54-1								
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									
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:	Citronellol								
CAS:	106-22-9								

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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/14242										
DNEL (Workers)										
	Systemic		Local		DNEL (Population)					
	Long term	Short term	Long term	Short term	Systemic		Local			
Inhalation	161.6 mg/m ³	Not available	10 mg/m ³		Inhalation	47.8 mg/m ³	Not available	10 mg/m ³		
Dermal	327.4 mg/kg bw/day	Not available	Not available	2950 µg/cm ²	Dermal	196.4 mg/kg bw/day	Not available	Not available	2950 µg/cm ²	
Oral	Not available		Not available		Oral	13.8 mg/kg bw/day	Not available	Not available		
Eyes	Not available		Medium hazard (no threshold derived)		Eyes	Not available		Medium hazard (no threshold derived)		
PNEC										
Freshwater	0.002 mg/L		Intermittent	0.024 mg/L	Marine water	0 mg/L				
STP	500 mg/L		Sediment (freshwater)	0.026 mg/kg sediment dw	Sediment (marine water)	0.003 mg/kg sediment dw				
Air	Not available		Soil	0.004 mg/kg soil dw	Hazard for predators	Not available				

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

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

IN NORMAL USE, NO PERSONAL PROTECTION DEVICES ARE PROVIDED

b) SKIN PROTECTION

i) Hand protection



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

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

USE WATERPROOF GLOVES

ii) other


PITTOGRAM	PPE	METHOD OF CHOOSING THE PPE
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 <p>Work clothing</p>	<p>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</p>	DANGER	Full coverage garment		Partial coverage garment	
			Waterproof	Permeable to air	Waterproof	Permeable to air
		Gas and fumes	A	NO	NO	NO
		Jets of liquids	A	NO	P	NO
		Splashes and splashes	A	P	P	P
		Dust	A	A	P	P
Dirt	A	A	A	A		
<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>	PPE	METHOD OF CHOOSING THE PPE				
<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.</p> <p>The UNI EN 529 standard (Respiratory protection devices - Recommendations for selection, use, care and maintenance - Guidance document) establishing the appropriate FPO value "operational protection factor" (eg use of face masks as per standard UNI EN149 - Respiratory protective devices - Filtering half mask against particles) can be a valid aid in determining the most correct PPE.</p>	DUST FILTERS					
	Efficiency	Dust class	RPD class and marking	Minimum total filtering efficiency	Protection	
	LOW	Filters P1	Respirators FFP1	78%	Powders/Harmful aerosol	
	AVERAGE	Filters P2	Respirators FFP2	92%	Powders/fumes/ low toxicity aerosol	
	HIGH	Filters P3	Respirators FFP3	98%	Powders/fumes / Harmful aerosol	
	GAS FILTERS					
	Capacity	Class	Maximum concentration			
	Low	1	Gas / vapor concentrations up to 1000 ppm			
	Average	2	Gas / vapor concentrations up to 5000 ppm			
	High	3	Gas / vapor concentrations up to 10000 ppm			
	TYPE OF FILTERS					
	Type	Protection			Filter color	
A	Organic gases and vapors with a boiling point > 65 ° C			BROWN		
B	Inorganic gases and vapors			GREY		
E	Acid gases			YELLOW		
K	Ammonia and derivatives			GREEN		
P	Toxic dusts, fumes, mists			WHITE		
AX (EN371)	Low boiling point organic gases and vapors <65 ° C			BROWN		
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)	Facial Filter FFP1 Half mask + P1	4	4		
Visibility	Filter capacity in relation to exposure time	Facial Filter FFP2 Half mask + P2	12	10		
Freedom of movement	Reduction of protection	Facial Filter FFP3 Half mask + P3	50	30		
Facial anatomy	Reduction of weight and discomfort	Full face + P1	5	4		
Environmental conditions	Mask adequacy	Full face + P2	20	15		
		Full face + P3	1000	400		

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

IN NORMAL USE, NO PERSONAL PROTECTION DEVICES ARE PROVIDED

d) THERMAL HAZARDS

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

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

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

8.2.3 Environmental exposure controls

Prevent uncontrolled release into the environment.

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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	Blu	--
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	--
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) : 3,05 %

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.

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SECTION 11: Toxicological information**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**

Hazard classes		Information
a)	acute toxicity	: Not classified. based on available data, the classification criteria are not met.
b)	skin corrosion/irritation	: Not classified. based on available data, the classification criteria are not met.
c)	serious eye damage/irritation	: 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.
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:	2,2,4,6,6-pentamethylheptane (INCI: Isododecane)		
CAS:	13475-82-6		
	ORAL	INHALATION	SKIN
	Rat LD50: >5000 mg/kg bw	Rat LC50: >5000 mg/m ³ air	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.

Substance:	Phenethyl alcohol		
CAS:	60-12-8		
	ORAL	INHALATION	SKIN
	Rat LD50: 1609.3 mg/kg bw	Rat LC50: >4.63 mg/m ³ air (4h)	Rabbit LD50: 2535 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
Inhalation risk
Effects of short-term exposure

The substance can be absorbed by the body by inhalation of its aerosols or vapours, through the skin and by ingestion. 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. The substance is irritating to the eyes, skin and respiratory tract. The substance can cause effects on the central nervous system. If swallowed the substance can cause vomiting and can lead to chemical pneumonia.

Effects of long-term or repeated exposure
Animal tests indicate the possibility that this substance may cause toxicity to human reproduction or development.

ACUTE HAZARDS/SYMPTOMS

Inhalation Cough. Sore throat. Headache. Nausea.
Skin Redness.
Eyes Redness. Pain.
Ingestion Abdominal pain. Burning sensation. Also see Inhalation.
Notes --

Substance:	Tetramethyl acetyloctahydronaphthalenes		
CAS:	54464-57-2		
	ORAL	INHALATION	SKIN
	(OECD TG 401): LD50 >5000 mg/kg bw	(route to route extrapolation from acute oral information): LD50 > 22360 mg/m ³	(OECD TG 402): 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:	Hexamethylindanopyran		
CAS:	1222-05-5		
	ORAL	INHALATION	SKIN
	Rat LD50: > 3000 mg/kg bw	Rat LC50: > 5040 mg/m ³ air	Rat LD50: > 3250gm/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:	Linalyl acetate		
CAS:	115-95-7		
	ORAL	INHALATION	SKIN
	Rat LD50: > 9000 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.

EXPOSURE AND HEALTH EFFECTS

Routes of exposure
Inhalation risk
Effects of short-term exposure
Effects of long-term or repeated exposure

Skin absorption.
No indication can be given as to how quickly a harmful concentration of the substance is reached in air by evaporation at 20°C. The substance is mildly irritating to the eyes.

--

ACUTE HAZARDS/SYMPTOMS

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

Substance:	Methyl cedryl ketone / Acetylcedrene		
CAS:	32388-55-9		
	ORAL	INHALATION	SKIN
	Rat LD50: 4 500 mg/kg bw	--	Rabbit LD50: 5 000 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:	d-Limonene		
CAS:	5989-27-5		
	ORAL	INHALATION	SKIN
	Rat LD50: > 2000 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.

EXPOSURE AND HEALTH EFFECTS

Routes of exposure
Inhalation risk
Effects of short-term exposure
Effects of long-term or repeated exposure

Inhalation, dermal, ocular, ingestion
No data are available on the rate at which harmful contamination in the air is reached by evaporation of the substance at 20°C
The substance is irritating to the skin and medium irritating to the eyes
Repeated or prolonged contact may cause skin sensitisation

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ACUTE HAZARDS/SYMPTOMS			
Inhalation	Slight irritation of the respiratory tract		
Skin	Redness, pain		
Eyes	Redness		
Ingestion	If ingested, it can penetrate the respiratory tract with deadly consequences.		
Notes	--		

Substance:	Linalool		
CAS:	78-70-6		
	ORAL	INHALATION	SKIN
	Mouse LD50: 2 200 mg/kg bw	MOuse LC50: > 3.2 mg/L (3200 mg/m ³)	Rabbi LD50: 5 610 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 aerosols and by ingestion
Inhalation risk	No indication can be given as to how quickly a harmful concentration of the substance is reached in air by evaporation at 20°C.
Effects of short-term exposure	The substance is irritating to eyes and skin.
Effects of long-term or repeated exposure	The substance may affect the liver.

ACUTE HAZARDS/SYMPTOMS	
Inhalation	--
Skin	Redness, pain
Eyes	Redness, pain
Ingestion	--
Notes	--

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.

Substance:	Isolongifolanone		
CAS:	23787-90-8		
	ORALE	INALATORIA	DERMICA
	Rat LD50: 2000 mg/kg bw	--	--
			NOTE
	--		

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:	Citronellol		
CAS:	106-22-9		
	ORAL	INHALATION	SKIN
	Rat LD50: 3450 mg/kg bw	--	Rabbit LD50: 2650 mg/kg bw
			NOTES
	--		

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

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:	2,2,4,6,6-pentamethylheptane (INCI: Isododecane)					
CAS:	13475-82-6					
LC50 – fish	96h - >1028 mg/L	Species	: Scophthalmus maximus	Guidelines	: OECD203	
EC50 – aquatic invertebrates	48h - >3000 mg/L	Species	: Acartia tonsa	Guidelines	: ISO 14669 - 1999 Water quality	
EC50 - aquatic algae and cyanobacteria	72h - 3.83 mg/L	Species	: Skeletonema costatum	Guidelines	: ISO 10253	
NOEC chronic fish	--	Species	: --	Guidelines	: --	
NOEC chronic invertebrates	--	Species	: --	Guidelines	: --	
NOEC chronic algae and cyanobacteria	--	Species	: --	Guidelines	: --	

Substance:	Phenethyl alcohol					
CAS:	60-12-8					
LC50 – fish	96 h – da >215 a <464 mg/L	Species	: Leuciscus idus	Guideline	: DIN 38 412	
EC50 – aquatic invertebrates	48 h – 287.17 mg/L	Species	: Daphnia Magna	Guideline	: U Method C.2	
ERL50 - algae and cyanobacteria	72 h – 1.3 g/L	Species	: Scenedesmus subspicatus	Guideline	: DIN 38 412	
NOEC Cronica fish	--	Species	: --	Guideline	: --	
NOEC Cronica aquatic invertebrates	--	Species	: --	Guideline	: --	
NOErL Cronica algae and cyanobacteria	72 h – 0.43 g/L	Species	: Scenedesmus subspicatus	Guideline	: DIN 38 412	

Substance:	Tetramethyl acetyloctahydronaphthalenes					
CAS:	54464-57-2					
LC50 – fish	96h-1,3 mg/L	Species	: Lepomis macrochirus	Guidelines	: OECD 203	
EC50 – aquatic invertebrates	48h-1.38 mg/L	Species	: Daphnia magna	Guidelines	: OECD 202	
EC50 - aquatic algae and cyanobacteria	72h- >2.6 mg/L	Species	: --	Guidelines	: OECD 201	
NOEC chronic fish	30d-0.54 mg/L	Species	: Zebra fish	Guidelines	: OECD 210	
NOEC chronic invertebrates	21d-0.044 mg/L	Species	: Daphnia magna	Guidelines	: OECD 211	
NOEC chronic algae and cyanobacteria	72h- >2.6 mg/L	Species	: Scenedesmus subspicatus	Guidelines	: OECD 201	

Substance:	Hexamethylindanopyran					
CAS:	1222-05-5					

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LC50 – fish	96h-0.95 mg/L	Species :	Medaka larvae	Guideline :	OECD 203		
EC50 – aquatic invertebrates	48h-0.3 mg/L	Species :	Daphnia magna	Guideline :	OECD 202		
ERL50 - algae and cyanobacteria	72h- > 0.7 mg/L	Species :	Pseudokirchneriella subcapitata	Guideline :	OECD 201		
NOEC Cronica fish	--	Species :	--	Guideline :	--		
NOEC Cronica aquatic invertebrates	48h-0.3 mg/l	Species :	--	Guideline :	--		
NOErL Cronic algae and cyanobacteria	72h-0.23 mg/L	Species :	Pseudokirchneriella subcapitata	Guideline :	OECD 201		
Substance:	Linalyl acetate						
CAS:	115-95-7						
LC50 – fish	96h-11 mg/L	Species :	Cyprinus carpio	Guidelines :	OECD 203		
EC50 – aquatic invertebrates	48h-59 mg/L	Species :	Daphnia magna	Guidelines :	OECD 202		
EC50 - aquatic algae and cyanobacteria	96h-68 mg/L	Species :	Pseudokirchneriella subcapitata	Guidelines :	OECD 201		
NOEC chronic fish	--	Species :	--	Guidelines :	--		
NOEC chronic invertebrates	--	Species :	--	Guidelines :	--		
NOEC chronic algae and cyanobacteria	96h-3.9 mg/L	Species :	Pseudokirchneriella subcapitata	Guidelines :	OECD 201		
Substance:	Methyl cedryl ketone / Acetylcedrene						
CAS:	32388-55-9						
LC50 – fish	96h – 2,3 mg/L	Species:	Pimephales promelas	Guideline:	OECD203		
EC50 – aquatic invertebrates	48h – 0,86 mg/L	Species:	Daphnia magna	Guideline:	OECD202		
EC50 - algae and cyanobacteria	96h – 4,3 mg/L	Species:	Pseudokirchneriella subcapitata	Guideline:	OECD201		
NOEC Cronica fish	--	Species:	--	Guideline:	--		
NOEC Cronica aquatic invertebrates	--	Species:	--	Guideline:	--		
NOEC Cronic algae and cyanobacteria	96h – 1,7 mg/L	Species:	Pseudokirchneriella subcapitata	Guideline:	OECD201		
Substance:	d-Limonene						
CAS:	5989-27-5						
LC50 – fish	96h-< 1 mg/L	Species :	Pimephales promelas	Guideline :	OECD 203		
EC50 – aquatic invertebrates	48h-0.307 mg/L	Species :	Daphnia magna	Guideline :	OECD 202		
ERL50 - algae and cyanobacteria	72h-0.32 mg/L	Species :	Pseudokirchneriella subcapitata	Guideline :	OECD 201		
NOEC Cronica fish	--	Species :	--	Guideline :	--		
NOEC Cronica aquatic invertebrates	--	Species :	--	Guideline :	--		
NOErL Cronic algae and cyanobacteria	72h-0.174 mg/L	Species :	Pseudokirchneriella subcapitata	Guideline :	OECD 201		
Substance:	Linalool						
CAS:	78-70-6						
LC50 – fish	96h - 27.8 mg/L	Species :	Salmo gairdneri	Guideline :	OECD Guideline 203		
EC50 – aquatic invertebrates	48h - 59 mg/L	Species :	Daphnia magna	Guideline :	OECD Guideline 202		
ERL50 - algae and cyanobacteria	96h - 156.7 mg/L	Species :	Desmodesmus subspicatus	Guideline :	DIN 38412 L 9		
NOEC Cronica fish	96h-<3.5 mg/L	Species :	Salmo gairdneri	Guideline :	OECD Guideline 203		
NOEC Cronic aquatic invertebrates	48h-25 mg/L	Species :	Daphnia magna	Guideline :	OECD Guideline 202		
NOErL Cronic algae and cyanobacteria	96h - 54.3 mg/L	Specie :	Desmodesmus subspicatus	Guideline :	DIN 38412 L 9		
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 Cronic algae and cyanobacteria	96h – 2.6 mg/L	Species :	Pseudokirchnerella subcapitata	Guideline :	OECD201		
Substance:	Isolongifolanone						
CAS:	23787-90-8						
LC50 – fish	--	Species :	--	Guideline :	--		
EC50 – aquatic invertebrates	48h - 5.2 mg/L	Species :	Daphnia magna	Guideline :	OECD Guideline 202		
ERL50 - algae and cyanobacteria	72h - 15 mg/L	Species :	Pseudokirchneriella subcapitata	Guideline :	OECD Guideline 201		
NOEC Cronica fish	--	Species :	--	Guideline :	--		
NOEC Cronica aquatic invertebrates	48h - 3.7 mg/L	Species :	Daphnia magna	Guideline :	OECD Guideline 202		
NOErL Cronic algae and cyanobacteria	72h – 7.1 mg/L	Species :	Pseudokirchneriella subcapitata	Guideline :	OECD Guideline 201		
Substance:	Citronellol						
CAS:	106-22-9						
LC50 – fish	96h-14.66 mg/L	Species :	Leuciscus idus	Guideline :	OECD Guideline 203		
EC50 – aquatic invertebrates	48h-17.48 mg/L	Species :	Daphnia magna	Guideline :	OECD Guideline 202		
ERL50 - algae and cyanobacteria	72h-2.4 mg/L	Species :	Scenedesmus subspicatus	Guideline :	OECD Guideline 201		
NOEC Cronica fish	--	Species :	--	Guideline :	--		
NOEC Cronica aquatic invertebrates	--	Species :	--	Guideline :	--		
NOErL Cronic algae and cyanobacteria	--	Species :	--	Guideline :	--		

12.2 Persistence and degradability

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

Specific biodegradation information for the substances contained

Substance:	2,2,4,6,6-pentamethylheptane (INCI: Isododecane)					
CAS:	13475-82-6					
Biodegradation in water:	Readily biodegradable		Test time :	28d		
Substance:	Phenethyl alcohol					
CAS:	60-12-8					
Biodegradation in water:	Readily biodegradable		Test time :	28d		
Substance:	Tetramethyl acetyloctahydronaphthalenes					
CAS:	54464-57-2					
Biodegradation in water:	Not biodegradable		Test time :	42d		

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Substance:	Hexamethylindanopyran				
CAS:	1222-05-5				
Biodegradation in water:	Not readily biodegradable		Test time :	28d	
Substance:	Linalyl acetate				
CAS:	115-95-7				
Biodegradation in water:	Readily biodegradable		Test time :	28d	
Substance:	Methyl cedryl ketone / Acetylcedrene				
CAS:	32388-55-9				
Biodegradation in water:	Not biodegradable		Test time :	28 giorni	
Substance:	d-Limonene				
CAS:	5989-27-5				
Biodegradation in water:	Readily biodegradable		Test time :	28 d	
Substance:	Linalool				
CAS:	78-70-6				
Biodegradation in water:	Readily biodegradable		Test time :	28d	
Substance:	Cyclamen aldehyde				
CAS:	103-95-7				
Biodegradation in water:	Readily biodegradable		Test time :	28d	
Substance:	Isolongifolanone				
CAS:	23787-90-8				
Biodegradation in water:	Poorly biodegradable		Test time :	28d	
Substance:	Citronellol				
CAS:	106-22-9				
Biodegradation in water:	Readily biodegradable		Test time :	28d	
12.3 Bioaccumulative potential					
Data not available for the mixture.					
Bioaccumulation information specific to the substances contained					
Substance:	2,2,4,6,6-pentamethylheptane (INCI: Isododecane)				
CAS:	13475-82-6				
Coefficient: n-octanol / water	:	log Pow 6,96			
BCF	:	811.55 L/kg			
Substance:	Phenethyl alcohol				
CAS:	60-12-8				
Partition coefficient: octanol/water	:	Log Kow (Log Pow): 1.3 a 20°C			
BCF	:	In accordance with column 2 of Annex IX to the REACH Regulation, testing for this endpoint is not scientifically necessary and should not be conducted because the test chemical has low bioaccumulation potential based on logKow ≤ 3			
Substance:	Tetramethyl acetyloctahydronaphthalenes				
CAS:	54464-57-2				
Partition coefficient: n-octanol / water	:	Log Kow (Log Pow): 5.65 to 30°C			
BCF	:	391 L/kg ww			
Substance:	Hexamethylindanopyran				
CAS:	1222-05-5				
Partition coefficient: n-octanol / water	:	Log Kow (Log Pow): 5.3 a 25°C			
BCF	:	(aquatic species): 1 584 L / kg body weight (terrestrial specie): 2395 L / kg body weight			
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:	Methyl cedryl ketone / Acetylcedrene				
CAS:	32388-55-9				
Partition coefficient: octanol/water	:	Log Kow (Log Pow): 5.9			
BCF	:	3920 adimensional			
Substance:	d-Limonene				
CAS:	5989-27-5				
Partition coefficient: n-octanol / water	:	Log Kow (Log Pow): 4.38 a 25°C			
BCF	:	690.1 L/kg ww			
Substance:	Linalool				
CAS:	78-70-6				
Partition coefficient: octanol/water	:	Log Kow (Log Pow): - 2.9 a 20 °C			
BCF	:	The study should not be conducted because the substance has low bioaccumulation potential based on log Kow <=3			
Substance:	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			
Substance:	Isolongifolanone				
CAS:	23787-90-8				
Partition coefficient: n-octanol / water	:	Log Kow (Log Pow): 4.9 a 35 °C			
BCF	:	381 L / kg wet weight			

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Substance: Citronellol	
CAS: 106-22-9	
Partition coefficient: n-octanol / water	: Log Kow (Log Pow): 3.41 a 25 °C
BCF	: 82.59 L/kg

12.4 Mobility in soil

No data available.

Mobility information in soil specific to the substances contained

Substance: 2,2,4,6,6-pentamethylheptane (INCI: Isododecane)
CAS: 13475-82-6
The adsorption coefficient was calculated using Petrorsk. This substance is best represented by 2,2,4,6,6- pentamethylpentanyl from the Concawe Library (Id compound - 1503).

Substance: Phenethyl alcohol
CAS: 60-12-8
The substance is expected to have a low adsorption potential as it has a logarithmic partition coefficient < 3. This is supported by the logarithmic adsorption coefficient of 1.5 in Givaudan (2010), a GLP-compliant adsorption coefficient study following the guideline OCSE 121

Substance: Tetramethyl acetyloctahydronaphthalenes
CAS: 54464-57-2
Koc at 20°C: 12589 [Log Koc: 4.12]

Substance: Hexamethylindanopyran
CAS: 1222-05-5
Log 4.16 (Koc: 14.300 L/kg) the substance will have a high potential for sediment/soil absorption.

Substance: Linalyl acetate
CAS: 115-95-7
Log Koc = 2,6359 (Koc a 20 °C: 432.4) on the basis of this result, adsorption to the solid phase of soil is not expected.

Substance: Methyl cedryl ketone / Acetylcedrene
CAS: 32388-55-9
Koc at 20 °C: 140 000 [= LogKoc: 5.1]

Substance: d-Limonene
CAS: 5989-27-5
Log Koc: 3.383 (Koc: 2413 L/kg a 20°C)

Substance: Linalool
CAS: 78-70-6
In accordance with column 2 of Annex VIII to REACH, adsorption/desorption tests (both screening and further testing) are not necessary as the substance is expected to have low adsorption potential based on its low log Kow (<3) and the substance is easily biodegradable and therefore rapidly degrades in the environment.

Substance: Cyclamen aldehyde
CAS: 103-95-7
Koc at 20 °C: 1 122 [log Koc = 3.05]

Substance: Citronellol
CAS: 106-22-9
Based on the calculated values for log Koc and the constant of Henry's law, citronellol is expected to evaporate slowly from the water surfaces in the atmosphere and no adsorption to the solid phase of the soil is expected. Distribution models predict that the substance will be distributed mainly in water and air (Mackay, level I, 2007)

12.5 Results of PBT and vPvB assessment

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

12.6 Endocrine disrupting properties

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

12.7 Other adverse effects

Classification for water pollution in Germany (AWSV, vom 18. April 2017):

WGK 2: Dangerous for the waters.

SECTION 13: Disposal considerations

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

13.1 Waste treatment methods

Container material and type:

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

Methods for waste treatment of the substance or mixture:

DANGER FEATURES (Directive 2008/98 / EC)	: 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:

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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	
	Stowage and segregation		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

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Category SEVESO: Not applicable

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

The mixture does not contain an explosive precursor.

15.2 Chemical safety assessment

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

SECTION 16: Other information

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

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

Flam. Liq. 3	Flammable liquids, Hazard Category 3
Asp. Tox. 1	Aspiration hazard, Hazard Category 1
Aquatic Chronic 4	Hazardous to the aquatic environment — Chronic Hazard, Category 4
Eye Irrit. 2	Serious eye damage/eye irritation, Hazard Category 2
Skin Irrit. 2	Skin corrosion/irritation, Hazard Category 2

Description of the hazard statements set out in section 3

H226 =	Flammable liquid and vapour
H304 =	May be fatal if swallowed and enters airways.
H413 =	May cause long lasting harmful effects to aquatic life.
H319 =	Causes serious eye irritation.
H315 =	Causes skin irritation

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Skin Sens. 1 Sensitisation — Skin, hazard category 1 Acquatic Chronic 2 Hazardous to the aquatic environment — Chronic Hazard, Category 2 Aquatic Acute 1 Hazardous to the aquatic environment — Acute Hazard, Category 1 Aquatic Chronic 1 Hazardous to the aquatic environment — Chronic Hazard, Category 1 Skin Sens. 1B Sensitisation — Skin, hazard category 1B Acquatic Chronic 3 Hazardous to the aquatic environment — Chronic Hazard, Category 3 Skin Sens. 1A Sensitisation — Skin, hazard category 1A Codice EUH EUH066 = Repeated exposure may cause skin dryness or cracking 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. CLP Annex VI annotation C = Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.		H317 = May cause an allergic skin reaction. H411 = Toxic to aquatic life with long lasting effects H400 = Very toxic to aquatic life. H410 = Very toxic to aquatic life with long lasting effects. H317 = May cause an allergic skin reaction. H412 = Harmful to aquatic life with long lasting effects H317 = May cause an allergic skin reaction.			
16.4 Bibliographical references and main data sources					
ECHA European Chemicals Agency TOXNET Toxicology Data Network CheLIST Chemical Lists Information System IPCS International Programme on Chemical Safety (Cards)		OSHA European Agency for Safety and Health at Work WHO World Health Organization ICSCs International Chemical Safety Cards NIOSH Registry of toxic effects of chemical substances (1983)		IARC International Agency for Research on Cancer ACGIH American Conference of Governmental Industrial Hygienists ILO International Labour Organization IFA Institut für Arbeitsschutz der Deutschen Gesetzlichen Unfallversicherung	
16.5 Normative references and / or documents (from which the data in section 8.1 derive)					
Code ⁽¹⁾	State	Bibliography / documents → LINK			
AUS	Australia	https://www.dguv.de/ifa/...../limit-values-australia/index-2.jsp	https://engage.swa.gov.au/workplace-exposure-standards-review		
		https://www.safeworkaustralia.gov.au/exposure-standards#exposure-standards-in-australia			
AUT	Austria	https://www.dguv.de/ifa/...../limit-values-austria/index-2.jsp	https://www.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/bgr/			
CAN	Canada-Ontario	https://www.dguv.de/ifa/...../limit-values-canada-ontario/index-2.jsp	https://www.labour.gov.on.ca/english/hs/pubs/oel_table.php		
CAN	Canada-Québec	https://www.dguv.de/ifa/...../limit-values-canada-quebec/index-2.jsp	http://legisquebec.gouv.qc.ca/fr/showdoc/cr/S-.....		
		https://www.csst.qc.ca/Pages/index.aspx			
CYP	Cyprus	http://www.mlsi.gov.cy/			
CAE	Czech Republic	https://www.mzcr.cz/			
HRV	Croatia	https://www.hzt.hr			
DNK	Denmark	https://www.dguv.de/ifa/...../limit-values-denmark/index-2.jsp	https://www.retsinformation.dk/eli/Ita/2019/1458		
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.biztonsagiadatlap.hu/...../5_2020-ll-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	Lituania	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.miliodirektoratet.no/	https://www.fhi.no/en/		
CHN	People's Republic of China	https://www.dguv.de/ifa/...../limit-values-china/index-2.jsp	http://www.nhfp.gov.cn/zhuz/pyl/200704/38838.shtml		
POL	Poland	https://www.dguv.de/ifa/...../limit-values-poland/index-2.jsp	http://www.ciop.pl/		
PRT	Portugal	http://www.inem.pt/ciav			
ROU	Romania	https://www.dguv.de/ifa/...../limit-values-romania/index-2.jsp	http://www.mmuncii.ro/.../5114-11042018_modif_HG-1218_Ag_chimici.pdf		
SGP	Singapore	https://www.dguv.de/ifa/...../limit-values-singapore/index-2.jsp	https://sso.agc.gov.sg/Act/WSHA2006		
SVK	Slovakia	http://www.ntic.sk/			
SVN	Slovenia	http://www.uk.gov.si/			
KOR	South Korea	https://www.dguv.de/ifa/...../limit-values-south-korea/index-2.jsp	http://www.kiha.kr/main/community_view.htm?uid=763&btn=gonggi&page=3		
ESP	Spain	https://www.dguv.de/ifa/...../limit-values-spain/index-2.jsp	https://www.insst.es/		
SWE	Sweden	https://www.dguv.de/ifa/...../limit-values-sweden/index-2.jsp	https://www.av.se/.../hygieniska-gransvarden-afs-20181-foreskrifter/		
CHE	Switzerland	https://www.dguv.de/ifa/...../limit-values-switzerland/index-2.jsp	http://suissepro.org/		
		https://www.suva.ch/de-CH/.....			
NLD	The Netherlands	https://www.dguv.de/ifa/...../limit-values-the-netherlands/index-2.jsp	https://www.ser.nl/en		
		https://wetten.overheid.nl/BWBR0008587/2017-07-01#BijlageXIII			
TUR	Turkey	https://www.dguv.de/ifa/...../limit-values-turkey/index-2.jsp			
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

	MATERIAL SAFETY DATA SHEET		BIG JOY
	LIGHT BLUE FLOWERS & CITRUS		
Current revision date: 05/10/2022	Current revision number: 00	Previous revision date: -/-/-	Previous revision number: -

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

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