

<div>Mr&Mrs</div> <div>FRAGRANCE</div>	MATERIAL SAFETY DATA SHEET		JEFF
	STRAWBERRIES		
Current revision date: 04/07/2023	Current revision number: 00	Previous revision date: - -/- -/- - - -	Previous revision number: - -

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

1.1 Product identifier

Commercial name : STRAWBERRIES
UFI : R850-T0YX-S00E-0PVU
European product categorisation system (EuPCS): PC-AIR-4 - Air care products for vehicles

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

Uses :	CONSUMER	PROFESSIONAL	INDUSTRIAL
	EVA air freshener for small rooms		
Uses advises against :	All those not expressly identified on the label		
Life cycle stages :	C-Consumer use		

1.3 Details of the supplier of the safety data sheet

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

1.4 Emergency telephone number

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

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

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

Hazard pictogram(s) : GHS07
Hazard Class and Notes Category Code(s) : Skin. Sens. 1, 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

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

2.2 Label elements

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

Hazard pictogram(s) : GHS07



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

General

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

Response

P302 + P352 - IF ON SKIN: Wash with plenty of water and soap.
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: Ethyl methylphenylglycidate, Methyl octine carbonate, 4-tert-butylcyclohexyl acetate, (E)-anethole.

2.2.2 Additional regulations to be implemented on the label

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

Additional information: Not a toy. Do not swallow. Do not leave the product exposed in environments with temperatures above 70°C. Do not use the product for purposes other than those intended. Only insert into the air vents. Avoid contact with shiny or metallic surfaces.

2.3 Other hazards

The mixture does NOT contain PBT / vPvB substances according to Regulation (EC) 1907/2006, annex XIII in concentrations equal to or greater than 0.1% by weight.
The mixture does NOT contain substances that have been included in the list established in accordance with Article 59, paragraph 1 due to properties of interference with the endocrine system in concentrations equal to or greater than 0.1% by weight.
The mixture does NOT contain a substance identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 in concentrations equal to or greater than 0.1% by weight.
ISO 8317_ Child-resistant packaging - Requirements and testing procedures for reclosable packages Not applicable
EN 862_ Child-resistant packaging - Requirements and testing procedures for non-reclosable packages for non-pharmaceutical products 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

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

Index number	EC/List n°.	CAS	REACH	International Chemical Identification	X= Conc. %
603-212-00-7	214-946-9	1222-05-5	01-2119488227-29	Hexamethylindanopyran	2.00 < x < 2.50
Hazard Class and Category Code(s), Hazard Statement Code(s)		Classification	Supplementary Hazard Statement Code(s)	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
Notes					
--					
Index number	EC/List n°.	CAS	REACH	International Chemical Identification	X= Conc. %
---	297-629-8	93685-81-5	01-2120752626-49	Hydrocarbons, C4, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated	2.00 < x < 2.50
Hazard Class and Category Code(s), Hazard Statement Code(s)		Classification	Supplementary Hazard Statement Code(s)	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	--
Notes					
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Index number	EC/List n°.	CAS	REACH	International Chemical Identification	X= Conc. %
--	203-225-4	104-67-6	01-2119959333-34	Gamma-undecalactone / Undecan-4-olide	1.00 < x < 1.50
Hazard Class and Category Code(s), Hazard Statement Code(s)		Classification	Supplementary Hazard Statement Code(s)	Pictograms, Signal Word Code(s)	Specific Concentration limits, M-Factors, Acute Toxicity Estimates (ATE)
Aquatic Chronic 3 H412			--	--	--
Notes					
--					
Index number	EC/List n°.	CAS	REACH	International Chemical Identification	X= Conc. %
---	201-061-8	77-83-8	01-2119967770-28	Ethyl methylphenylglycidate / Ethyl 2,3-epoxy-3-phenylbutyrate	1.00 < x < 1.50
Hazard Class and Category Code(s), Hazard Statement Code(s)		Classification	Supplementary Hazard Statement Code(s)	Pictograms, Signal Word Code(s)	Specific Concentration limits, M-Factors, Acute Toxicity Estimates (ATE)
Skin Sens. 1B H317, Aquatic Chronic 2 H411			--	GHS07 – WARNING	--
Notes					
--					
Index number	EC/List n°.	CAS	REACH	International Chemical Identification	X= Conc. %
--	203-909-2	111-80-8	01-2120139912-55	Methyl octine carbonate / Methyl non-2-ynoate	0,25 < x < 0,30
Hazard Class and Category Code(s), Hazard Statement Code(s)		Classification	Supplementary Hazard Statement Code(s)	Pictograms, Signal Word Code(s)	Specific Concentration limits, M-Factors, Acute Toxicity Estimates (ATE)
Acute Tox. 4 H302, Skin Irrit. 2 H315, Skin Sens. 1A H317, Aquatic Acute 1 H400, Aquatic Chronic 3 H412			--	--	Aquatic Acute M = 1
Notes					
--					
Index number	EC/List n°.	CAS	REACH	International Chemical Identification	X= Conc. %
---	204-642-4	123-68-2	01-2119983573-26	Allyl caproate / Allyl hexanoate	0.10 < x < 0.15
Hazard Class and Category Code(s), Hazard Statement Code(s)		Classification	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. 3 H311, Acute Tox. 3 H331, Aquatic Acute 1 H400, Aquatic Chronic 3 H412			--	GHS06 – GHS09 - DANGER	M=1
Notes					
--					
Index number	EC/List n°.	CAS	REACH	International Chemical Identification	X= Conc. %
--	250-954-9	32210-23-4	01-2119976286-24	4-tert-butylcyclohexyl acetate	0.10 < x < 0.15
Hazard Class and Category Code(s), Hazard Statement Code(s)		Classification	Supplementary Hazard Statement Code(s)	Pictograms, Signal Word Code(s)	Specific Concentration limits, M-Factors, Acute Toxicity Estimates (ATE)
Skin Sens. 1B H317			--	GHS07- WARNING	--
Notes					
--					
Index number	EC/List n°.	CAS	REACH	International Chemical Identification	X= Conc. %
--	224-052-0	4180-23-8	01-2119979097-22	(E)-anethole	0.10 < x < 0.15
Hazard Class and Category Code(s), Hazard Statement Code(s)		Classification	Supplementary Hazard Statement Code(s)	Pictograms, Signal Word Code(s)	Specific Concentration limits, M-Factors, Acute Toxicity Estimates (ATE)
Skin Sens. 1 H317, Aquatic Chronic 3 H412			--	GHS07 - WARNING	--
Notes					
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SECTION 4: First aid measures

4.1 Description of first aid measures

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

Inhalation

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

Skin

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

Eyes

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

Ingestion

SEEK MEDICAL ATTENTION IMMEDIATELY.

4.2 Most important symptoms and effects, both acute and delayed

Inhalation

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

Skin

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

Eyes

Redness.

Ingestion

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

4.3 Indication of any immediate medical attention and special treatment needed

See section 4.1 Description of first aid measures.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Water spray, CO₂, alcohol resistant foam, chemical powders depending on the materials involved in the fire.

Unsuitable extinguishing media : None in particular

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5.2 Special hazards arising from the substance or mixture

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

5.3 Advice for firefighters

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

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : Move away from the area surrounding the spill or release. Not smoking.
For emergency responders : General information: No smoking. Use suitable personal protective equipment, see Section 8.

6.2 Environmental precautions

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

6.3 Methods and material for containment and cleaning up

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

6.3.2 Appropriate advice shall be provided on how to clean-up a spill
After collection, wash the affected area and materials with plenty of water and recover the resulting fluids.

6.3.3 Any other information shall be provided relating to spills and releases, including advice on inappropriate containment or clean-up techniques
Hand over waste only to specialized companies

6.4 Reference to other sections

Refer to sections 8 and 13 for more information

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Normal precautions for handling sensitizing chemical products, protecting themselves from any accidental contact. Do not smoke, eat or drink while handling.

7.2 Conditions for safe storage, including any incompatibilities

How to manage risks associated with:	
i) explosive atmospheres	Nothing to report
ii) corrosive conditions	Nothing to report
iii) flammability hazards	Nothing to report
iv) incompatible substances or mixtures	Avoid contact with solvents which could damage the product.
v) evaporative conditions	Keep in the original packaging, in well-ventilated areas at room temperature.
vi) potential ignition sources (including electrical equipment)	Keep away from open flames, sparks and sources of ignition in general. Appropriate maintenance of all the electrical components of machines, systems and electrical installations in general can give a sufficient guarantee of reducing the risk of fire.
How to control the effects of:	
i) weather conditions	Store indoors in dry environments.
ii) ambient pressure	Nothing to report
iii) Temperature	Store at room temperature
iv) sunlight	Do not store in direct sunlight.
v) humidity	Keep away from humidity.
vi) Vibration	Nothing to report
How to maintain the integrity of the substance or mixture by the use of:	
i) stabilisers	Nothing to report
ii) antioxidants	Nothing to report
Other advice including	
i) ventilation requirements	Keep in cool and ventilated places.
ii) specific designs for storage rooms or vessels (including retention walls and ventilation)	Nothing to report
iii) quantity limits under storage conditions (if relevant)	Keep in cool and ventilated places.
iv) packaging compatibilities	Nothing to report
v) Storage class	Not applicable

7.3 Specific end use(s)

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

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Related to the substances contained

Substance:	Hexamethylindanopyran			
CAS:	1222-05-5			
GESTIS International Limit Values				
	Limit value - Eight hours		Limit value - Short term	
	ppm	mg/m³	ppm	mg/m³
	- -	- -	- -	- -
	Remarks			
	- -			
https://echa.europa.eu/it/registration-dossier/-/registered-dossier/14504				

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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	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
Substance:		Hydrocarbons, C4, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated							
CAS:		93685-81-5							
GESTIS International Limit Values									
		Limit value – Eight hours				Limit value – Short term			
		ppm		mg/m³		ppm		mg/m³	
		--		--		--		--	
		Remarks							
		--							
Link DNEL value		https://echa.europa.eu/it/registration-dossier/-/registered-dossier/21760							
DNEL (Workers)						DNEL (Population)			
	Systemic		Local			Systemic		Local	
	Long term	Short term	Long term	Short term		Long term	Short term	Long term	Short term
Inhalation	No hazard identified		No hazard identified		Inhalation	No hazard identified		No hazard identified	
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									
	Freshwater	No data available: testing technically not feasible		Intermittent	Not available		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:		Gamma-undecalactone / Undecan-4-olide							
CAS:		104-67-6							
GESTIS International Limit Values									
		Limit value - Eight hours				Limit value - Short term			
		ppm		mg/m³		ppm		mg/m³	
		--		--		--		--	
		Remarks							
		--							
Link DNEL value		https://echa.europa.eu/it/registration-dossier/-/registered-dossier/14215							
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 mg/m³	No hazard identified	No hazard identified		Inhalation	4.68 mg/m³	No hazard identified	No hazard identified	
Dermal	5.38 mg/kg bw/day	No hazard identified	No hazard identified		Dermal	2.7 mg/kg bw/day	No hazard identified	No hazard identified	
Oral	Not available		Not available		Oral	2.7 mg/kg bw/day	No hazard identified	Not available	
Eyes	Not available		No hazard identified		Eyes	Not available		No hazard identified	
PNEC									
	Freshwater	84 µg/L		Intermittent	58.5 µg/L		Marine water	8.4 µg/L	
	STP	80 mg/L		Sediment (freshwater)	5.341 mg/kg sediment dw		Sediment (marine water)	0.534 mg/kg sediment dw	
	Air	No hazard identified		Soil	1.019 mg/kg soil dw		Hazard for predators	66.7 mg/kg food	
Substance:		Ethyl methylphenylglycidate / Ethyl 2,3-epoxy-3-phenylbutyrate							
CAS:		77-83-8							
GESTIS International Limit Values									
		Limit value - Eight hours				Limit value - Short term			
		ppm		mg/m³		ppm		mg/m³	
		--		--		--		--	
		Remarks							
		--							
Link DNEL value		https://echa.europa.eu/it/registration-dossier/-/registered-dossier/12589							
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	17.63 mg/m³	35.26 mg/m³	44.08 mg/m³	88.16 mg/m³	Inhalation	2.17 mg/m³	8.7 mg/m³	5.43 mg/m³	22.74 mg/m³
Dermal	5 mg/kg bw/day	5 mg/kg bw/day	12.5 mg/cm²	25 mg/cm²	Dermal	1.25 mg/kg bw/day	5 mg/kg bw/day	3.13 mg/cm²	12.5 mg/cm²
Oral	Not available		Not available		Oral	1.25 mg/kg bw/day	5 mg/kg bw/day	Not available	
Eyes	Not available		No hazard identified		Eyes	Not available		No hazard identified	
PNEC									
	Freshwater	0.008 mg/L		Intermittent	0.084 mg/L		Marine water	8.4 µg/L	
	STP	10 mg/L		Sediment (freshwater)	0.214 mg/kg sediment dw		Sediment (marine water)	0.021 mg/kg sediment dw	
	Air	No hazard identified		Soil	0.038 mg/kg soil dw		Hazard for predators	23.3 mg/kg food	
Substance:		Methyl octine carbonate / Methyl non-2-ynoate							
CAS:		111-80-8							
GESTIS International Limit Values									
		Limit value - Eight hours				Limit value - Short term			

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		ppm		mg/m³		ppm	
		--		--		--	
		Remarks					
		--					
https://echa.europa.eu/it/registration-dossier/-/registered-dossier/18707							
DNEL (Workers)				DNEL (Population)			
Systemic		Local		Systemic		Local	
	Long term	Short term	Long term	Short term	Long term	Short term	Long term
Inhalation	Not available		Not available		Inhalation	Not available	
Dermal	Not available		Not available		Dermal	Not available	
Oral	Not available		Not available		Oral	Not available	
Eyes	Not available		Not available		Eyes	Not available	
PNEC							
Freshwater		Not available		Intermittent		Not available	
STP		Not available		Sediment (freshwater)		Not available	
Air		Not available		Soil		Not available	
Marine water		Not available		Sediment (marine water)		Not available	
Hazard for predators		Not available		Hazard for predators		Not available	
Substance:		Allyl caproate / Allyl hexanoate					
CAS:		123-68-2					
GESTIS International Limit Values							
		Limit value - Eight hours				Limit value - Short term	
		ppm		mg/m³		ppm	
		--		--		--	
		Remarks					
		--					
Link DNEL value		https://echa.europa.eu/it/registration-dossier/-/registered-dossier/12389					
DNEL (Workers)				DNEL (Population)			
Systemic		Local		Systemic		Local	
	Long term	Short term	Long term	Short term	Long term	Short term	Long term
Inhalation	15 mg/m³	Low hazard (no threshold derived)	No hazard identified		Inhalation	3.7 mg/m³	Medium hazard (no threshold derived)
Dermal	4.3 mg/kg bw/day	Medium hazard (no threshold derived)	No hazard identified		Dermal	2.1 mg/kg bw/day	Medium hazard (no threshold derived)
Oral	Not available		Not available		Oral	2.1 mg/kg bw/day	Medium hazard (no threshold derived)
Eyes	Not available		No hazard identified		Eyes	Not available	
PNEC							
Freshwater		0.117 µg/L		Intermittent		1.17 µg/L	
STP		10 mg/L		Sediment (freshwater)		4.46 µg/kg sediment dw	
Air		No hazard identified		Soil		0.825 µg/kg soil dw	
Marine water		0.012 µg/L		Sediment (marine water)		0.446 µg/kg sediment dw	
Hazard for predators		47.56 mg/kg food		Hazard for predators		47.56 mg/kg food	
Substance:		4-tert-butylcyclohexyl acetate					
CAS:		32210-23-4					
GESTIS International Limit Values							
		Limit value - Eight hours				Limit value - Short term	
		ppm		mg/m³		ppm	
		--		--		--	
		Remarks					
		--					
Link DNEL value		https://echa.europa.eu/it/registration-dossier/-/registered-dossier/15158					
DNEL (Workers)				DNEL (Population)			
Systemic		Local		Systemic		Local	
	Long term	Short term	Long term	Short term	Long term	Short term	Long term
Inhalation	No hazard identified		No hazard identified		Inhalation	No hazard identified	
Dermal	No hazard identified		Medium hazard (no threshold derived)		Dermal	Medium hazard (no threshold derived)	
Oral	Not available		Not available		Oral	No hazard identified	
Eyes	Not available		No hazard identified		Eyes	Not available	
PNEC							
Freshwater		5.3 µg/L		Intermittent		53 µg/L	
STP		12.2 mg/L		Sediment (freshwater)		2.01 mg/kg sediment dw	
Air		No hazard identified		Soil		0.42 mg/kg soil dw	
Marine water		12.2 mg/L		Sediment (marine water)		0.21 mg/kg sediment dw	
Hazard for predators		66.67 mg/kg food		Hazard for predators		66.67 mg/kg food	
Substance:		(E)-anethole					
CAS:		4180-23-8					
GESTIS International Limit Values							
		Limit value - Eight hours				Limit value - Short term	
		ppm		mg/m³		ppm	
		--		--		--	
		Remarks					
		--					
Link DNEL value		https://echa.europa.eu/it/registration-dossier/-/registered-dossier/13872					
DNEL (Workers)				DNEL (Population)			
Systemic		Local		Systemic		Local	
	Long term	Short term	Long term	Short term	Long term	Short term	Long term
Inhalation	10.57 mg/m³	No hazard identified	No hazard identified		Inhalation	5.28 mg/m³	No hazard identified
Dermal	7.5 mg/kg bw/day	No hazard identified	No hazard identified		Dermal	3.75 mg/kg bw/day	No hazard identified
Oral	Not available		Not available		Oral	No hazard identified	
Eyes	Not available		No hazard identified		Eyes	Not available	
PNEC							
Freshwater		0.021 mg/L		Intermittent		Not available	
STP		0.972 mg/L		Sediment (freshwater)		0.166 mg/kg sediment dw	
Marine water		0.002 mg/L		Sediment (marine water)		0.017 mg/kg sediment dw	

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Air	No hazard identified	Soil	0.097 mg/kg soil dw	Hazard for predators	Insufficient hazard data available (further information necessary)

8.2 Exposure controls

8.2.1 Appropriate engineering controls

If, following the risk assessment and the adoption of preventive technical and/or organizational collective protection measures, it appears that there is still a residual risk for the worker, it is necessary to equip the worker with Personal Protective Equipment. In any company, however, the instructions given by the Head of the Prevention and Protection Service must be complied with, who will have assessed the risk deriving from all the products used in each working phase. Before choosing the PPE to wear, it is essential to know the risks associated with the work environment, the environmental conditions, the job of the wearer and after having consulted the instructions provided by the manufacturer. All PPE belonging to the third category must be delivered to operators only after adequate training.


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

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

8.2.2 Individual protection measures, such as personal protective equipment

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

a) EYE/FACE PROTECTION


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

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

IN NORMAL USE THERE ARE NO PERSONAL PROTECTIVE EQUIPMENT PROVIDED

b) SKIN PROTECTION


i) Hand protection

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

The Head of the Prevention and Protection Service will evaluate the choice of PPE to be used based on the duties.

USE WATERPROOF GLOVES

ii) other


PITTOGRAM		PPE		METHOD OF CHOOSING THE PPE			
 Work clothing	PPE for the body can be of different categories depending on their specific use. Under normal working conditions, normal work clothing offers characteristics that provide sufficient protection for workers. In activities presenting particular risks, specific “protective clothing” should be used which covers or replaces personal clothing and which is designed with specific protective characteristics. The basic requirements relating to the ergonomics and health of PPE for the body are: harmlessness of the materials, comfort and effectiveness factors, design, thermal resistance of the clothing and the characteristics of the operators. Please note that to ensure adequacy and mobility with full-coverage protective clothing, it is recommended that all operators carry out the "seven movements" test. Standard EN 13688 Protective clothing - General requirements	DANGER	Full coverage garment		Partial coverage garment		
			Waterproof	Permeable to air	Waterproof	Permeable to air	
		Gas and fumes	A	NO	NO	NO	
		Jets of liquids	A	NO	P	NO	
		Splashes and splashes	A	P	P	P	
		Dust	A	A	P	P	
		Dirt	A	A	A	A	
		NO: Indicates that the possibility is not compatible - A: suitable combination - P: combination that depends on external conditions					
		The protective clothing against chemicals, depending on the barrier performance of the raw material used and the packaging of the garment, have different types of protection: Type 1 (gas-tight), Type 2 (non-watertight gas), Type 3 (liquid tight), Type 4 (splash tight), Type 5 (dust tight), Type 6 (limited liquid splash tight). The chemical risks are many and it is therefore necessary to choose the most appropriate garment, also considering that the materials can be 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.					

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

NO PERSONAL PROTECTIVE EQUIPMENT IS REQUIRED IN NORMAL USE


c) RESPIRATORY PROTECTION

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

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

NO PERSONAL PROTECTIVE EQUIPMENT IS REQUIRED IN NORMAL USE

d) THERMAL HAZARDS

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

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

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

8.2.3 Environmental exposure controls

Prevent uncontrolled release into the environment.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

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

Physical and chemical properties		Value	Notes or analytical method
a)	Physical state	Solid	As defined in Annex I, section 1.0 of Reg. 1272/2008
b)	Colour	Various colours	--
c)	Odour	Characteristic of the fragrance	--
d)	Melting point/freezing point	Not determined	--
e)	Boiling point or initial boiling point and boiling range	Not determined	--
f)	Flammability	NO	Applicable to gases, liquids and solids
g)	Lower and upper explosion limit	Not applicable	Not applicable to solids
h)	Flash point	Not applicable	Does not apply to gases, aerosols and solids
i)	Auto-ignition temperature	Not applicable	Only applicable to gases and liquids
j)	Decomposition temperature	Not applicable	Only applicable to self-reactive substances and mixtures, organic peroxides and other substances and mixtures which may decompose.
k)	pH	Not applicable	The mixture is not soluble in water

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l)	Kinematic viscosity	Not applicable	Applies to liquids only
m)	Solubility	Insoluble in water, partially soluble in alcohol	--
n)	Partition coefficient n-octanol/water (log value)	Not applicable	It does not apply to inorganic and ionic liquids and, as a rule, does not apply to mixtures
o)	Vapour pressure	Not determined	According to the REACH regulation, the study must not be conducted if the melting point is above 300°C (Annex VII, column 2 adaptation).
p)	Density and/or relative density	Not applicable	only applies to liquids and solids.
q)	Relative vapour density	Not applicable	only applies to gases and liquids.
r)	Particle characteristics	Not relevant. Non-particulate blend	applies only to solids

9.2 Other information

- a) Explosives:

Not applicable
- b) Flammable gases:

Not applicable
- c) Aerosols:

Not applicable
- d) Oxidising gases:

Not applicable
- e) Gases under pressure:

Not applicable
- f) Flammable liquids:

Not applicable
- g) Flammable solids:

Not applicable
- h) Self-reactive substances and mixtures:

Not applicable
- i) Pyrophoric liquids:

Not applicable
- j) Pyrophoric solids:

Not applicable
- k) Self-heating substances and mixtures:

Not applicable
- l) Substances and mixtures, which emit flammable gases in contact with water:

Not applicable
- m) Oxidising liquids:

Not applicable
- n) Oxidizing solids:

Not applicable
- o) Organic peroxides:

Not applicable
- p) Corrosive to metals:

Not applicable
- q) Desensitised explosives:

Not applicable

9.2.2 Other safety characteristics

- a) mechanical sensitivity

Not applicable
- b) self-accelerating polymerisation temperature

Not applicable
- c) formation of explosible dust/air mixtures

Not applicable
- d) acid/alkaline reserve

Not applicable
- e) evaporation rate

Not determinated
- f) miscibility

Not miscible with water
- g) conductivity

Not applicable
- h) corrosiveness

Not applicable
- i) gas group

Not applicable
- j) redox potential

Not applicable
- k) radical formation potential

Not applicable
- l) photocatalytic properties

Not applicable

Other physical and chemical parameters:

COV (Directive 2010/75 / EC) Not available

SECTION 10: Stability and reactivity

10.1 Reactivity

Stable under normal conditions of use and storage.

10.2 Chemical stability

Stable under normal conditions of use and storage.

10.3 Possibility of hazardous reactions

None known under normal conditions of use.

10.4 Conditions to avoid

- a) Temperature

:

do not subject to direct heating
- b) Pressure

:

nothing to report
- c) Light

:

nothing to report
- d) Static discharge

:

nothing to report
- e) Vibrations

:

nothing to report
- f) Other physical stresses

:

no other data available

10.5 Incompatible materials

- a) Water

:

avoid contact
- b) Air

:

nothing to report
- c) Acids

:

avoid contact
- d) Bases

:

avoid contact
- e) Oxidising agents

:

avoid contact
- f) Reducing agents

:

avoid contact
- g) Chemicals

:

avoid contact

10.6 Hazardous decomposition products

Under normal conditions the preparation does not decompose. Due to thermal decomposition, fumes harmful to health are released.

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.

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c)	serious eye damage/irritation		:	Not classified. based on available data, the classification criteria are not met.	
d)	respiratory or skin sensitisation		:	If brought into contact with the skin, it may cause skin sensitization.	
e)	germ cell mutagenicity		:	Not classified. based on available data, the classification criteria are not met.	
f)	carcinogenicity		:	Not classified. based on available data, the classification criteria are not met.	
g)	reproductive toxicity		:	Not classified. based on available data, the classification criteria are not met.	
h)	STOT-single exposure		:	Not classified. based on available data, the classification criteria are not met.	
i)	STOT-repeated exposure		:	Not classified. based on available data, the classification criteria are not met.	
j)	aspiration hazard		:	Not classified. based on available data, the classification criteria are not met.	
Specific toxicological information for the substances contained (if available)					
Substance:	Hexamethylindanopyran				
CAS:	1222-05-5				
ORAL		INHALATION		DERMAL	
Rat LD50: > 3000 mg/kg bw		Rat LC50: > 5040 mg/m³ air		Rat LD50: > 3250gm/kg bw	
				NOTES	
				--	
The values included in this section are those available, at the time of writing this SDS, in the ECHA dossier in the section Toxicological information or from the supplier's indications.					
Substance:	Hydrocarbons, C4, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated				
CAS:	93685-81-5				
ORAL		INHALATION		DERMAL	
Rat LD50: 5000 mg/kg bw		Rat LC50: 5000 mg/m³ air		Rabbit LD50: 2200 mg/kg bw	
				NOTES	
				--	
The values included in this section are those available, at the time of writing this SDS, in the ECHA dossier in the section Toxicological information or from the supplier's indications.					
Substance:	Gamma-undecalactone / Undecan-4-olide				
CAS:	104-67-6				
ORAL		INHALATION		DERMAL	
Rat LD50: >2000 mg/kg bw		--		Rat LD50: >2000 mg/kg bw	
				NOTES	
				--	
The values included in this section are those available, at the time of writing this SDS, in the ECHA dossier in the section Toxicological information or from the supplier's indications.					
Substance:	Ethyl methylphenylglycidate / Ethyl 2,3-epoxy-3-phenylbutyrate				
CAS:	77-83-8				
ORAL		INHALATION		DERMAL	
Rat LD50: 5000 mg/kg bw		--		Rat LD50: 5000 mg/kg bw	
				NOTES	
				--	
The values included in this section are those available, at the time of writing this SDS, in the ECHA dossier in the section Toxicological information or from the supplier's indications.					
Substance:	Methyl octine carbonate / Methyl non-2-ynoate				
CAS:	111-80-8				
ORAL		INHALATION		DERMAL	
LD50: > 2000 mg/kg bw		--		Rat LD50: > 2000 mg/kg bw	
				NOTES	
				--	
The values included in this section are those available, at the time of writing this SDS, in the ECHA dossier in the section Toxicological information or from the supplier's indications.					
Substance:	Allyl caproate / Allyl hexanoate				
CAS:	123-68-2				
ORAL		INHALATION		DERMAL	
Rat LD50: 2 220 mg/kg bw		--		--	
				NOTES	
				--	
The values included in this section are those available, at the time of writing this SDS, in the ECHA dossier in the section Toxicological information or from the supplier's indications.					
Substance:	4-tert-butylcyclohexyl acetate				
CAS:	32210-23-4				
ORAL		INHALATION		DERMAL	
Rat LD50: 3370 mg/kg bw		--		Rabbit LD50: > 4680 mg/kg bw	
				NOTES	
				--	
The values included in this section are those available, at the time of writing this SDS, in the ECHA dossier in the section Toxicological information or from the supplier's indications.					
Substance:	(E)-anethole				
CAS:	4180-23-8				
ORAL		INHALATION		DERMAL	
Rat LD50: > 2000 mg/kg bw		Rat LC50: ≥ 5.1 mg/L air 4h		Rabbit LD50: > 4 900 mg/kg bw	
				NOTES	
				--	
The values included in this section are those available, at the time of writing this SDS, in the ECHA dossier in the section Toxicological information or from the supplier's indications.					
11.2 Information on other hazards					
11.2.1 Endocrine disrupting properties					
The mixture does NOT contain substances identified as having endocrine-disrupting properties in accordance with the criteria established in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 in concentrations equal to or greater than 0.1% in weight.					
11.2.2 Other information					
No further data available					
SECTION 12: Ecological information					
Environmental Release Categories: ERC11a - Widespread use of articles with low release (indoor)					
12.1 Toxicity					
The product is dangerous for the environment as it is harmful to aquatic life with long lasting effects.					
Use according to good working practices, avoiding to disperse the product in the environment.					
Ecotoxicological information specific to the substances contained					
Substance:	Hexamethylindanopyran				
CAS:	1222-05-5				
LC50 – fish	96h: 0.95 mg/L	Species	Medaka larvae	Guideline	OECD 203
EC50 – aquatic invertebrates	48h: 0.3 mg/L	Species	Daphnia magna	Guideline	OECD 202
ERL50 - algae and cyanobacteria	72h: > 0.7 mg/L	Species	Pseudokirchneriella subcapitata	Guideline	OECD 201
NOEC Cronica fish	--	Species	--	Guideline	--
NOEC Cronica aquatic invertebrates	48h: 0.3 mg/l	Species	--	Guideline	--
NOErL Cronic algae and cyanobacteria	72h: 0.23 mg/L	Species	Pseudokirchneriella subcapitata	Guideline	OECD 201
Substance:	Hydrocarbons, C4, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated				
CAS:	93685-81-5				
LL50 – fish	96h: >100 mg/L	Species	Danio rerio	Guideline	OECD203
EL50 – aquatic invertebrates	48h: >100 mg/L	Species	Daphnia Magna	Guideline	OECD202

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EL50 - algae and cyanobacteria		72h: >100 mg/L	Species	Raphidocelis subcapitata	Guideline	OECD201
NOEC Cronica fish		--	Species	--	Guideline	--
NOEC Cronica aquatic invertebrates		--	Species	--	Guideline	--
NOErL Cronic algae and cyanobacteria		72h: >100 mg/L	Species	Raphidocelis subcapitata	Guideline	OECD201
Substance: Gamma-undecalactone / Undecan-4-olide						
CAS: 104-67-6						
LC50 – fish		96h - 4.2 mg/L	Species	Oncorhynchus mykiss	Guideline	OECD203
EC50 – aquatic invertebrates		48h - 52 mg/L	Species	Daphnia Magna	Guideline	OECD202
ERL50 - algae and cyanobacteria		72h – 36 mg/L	Species	Pseudokirchneriella subcapitata	Guideline	OECD201
NOEC Cronica fish		--	Species	--	Guideline	--
NOEC Cronica aquatic invertebrates		--	Species	--	Guideline	--
NOErL Cronic algae and cyanobacteria		72h - 9.3 mg/L	Specie	Desmodesmus subspicatus	Guideline	OECD201
Substance: Ethyl methylphenylglycidate / Ethyl 2,3-epoxy-3-phenylbutyrate						
CAS: 77-83-8						
LC50 – fish		96h: 4.2 mg/L	Species	Oncorhynchus mykiss	Guideline	OECD203
EC50 – aquatic invertebrates		48h: 52 mg/L	Species	Daphnia Magna	Guideline	OECD202
ERL50 - algae and cyanobacteria		72h: 36 mg/L	Species	Pseudokirchneriella subcapitata	Guideline	OECD201
NOEC Cronica fish		--	Species	--	Guideline	--
NOEC Cronica aquatic invertebrates		--	Species	--	Guideline	--
NOErL Cronic algae and cyanobacteria		72h: 9.3 mg/L	Specie	Desmodesmus subspicatus	Guideline	OECD201
Substance: Methyl octine carbonate / Methyl non-2-yanoate						
CAS: 111-80-8						
LC50 – fish		--	Species	--	Guidelines	--
EC50 – aquatic invertebrates		48h: 1.1 mg/L	Species	Daphnia magna	Guidelines	OECD202
ERL50 - algae and cyanobacteria		72h: 0.83 mg/L	Species	Pseudokirchneriella subcapitata	Guidelines	OECD201
NOEC Cronica fish		--	Species	--	Guidelines	--
NOEC Cronica aquatic invertebrates		48h: 0.38 mg/L	Species	Daphnia magna	Guidelines	OECD202
NOErL Cronic algae and cyanobacteria		72h: 0.29 mg/L	Species	Pseudokirchneriella subcapitata	Guidelines	OECD201
Substance: Allyl caproate / Allyl hexanoate						
CAS: 123-68-2						
LC50 – fish		: 96h - 0.117 mg/L	Species	: Danio rerio	Guidelines	: OECD203
EC50 – aquatic invertebrates		: 48h - 2 mg/L	Species	: Daphnia Magna	Guidelines	: OECD202
EC50 - aquatic algae and cyanobacteria		: 72h – 4.6 mg/L	Species	: Desmodesmus subspicatus	Guidelines	: OECD201
NOEC chronic fish		: 96h - - - mg/L	Species	: --	Guidelines	: --
NOEC chronic invertebrates		: 48h - - - mg/L	Species	: --	Guidelines	: --
NOEC chronic algae and cyanobacteria		: 72h - 0.255 mg/L	Species	: Desmodesmus subspicatus	Guidelines	: OECD201
Substance: 4-tert-butylcyclohexyl acetate						
CAS: 32210-23-4						
LC50 – fish		96h: 8.6 mg/L	Species	Cyprinus carpio	Guidelines	OECD203
EC50 – aquatic invertebrates		48h: 5.3 mg/L	Species	Daphnia Magna	Guidelines	OECD202
EC50 - aquatic algae and cyanobacteria		72h: 22 mg/L	Species	Desmodesmus subspicatus	Guidelines	OECD201
NOEC chronic fish		--	Species	--	Guidelines	--
NOEC chronic invertebrates		--	Species	--	Guidelines	--
NOEC chronic algae and cyanobacteria		72h: 6.8 mg/L	Species	Desmodesmus subspicatus	Guidelines	OECD201
Substance: (E)-anethole						
CAS: 4180-23-8						
LC50 – fish		96h: 7 mg/L	Species	Danio rerio	Guideline	OECD203
EC50 – aquatic invertebrates		48h: 6.82 mg/L	Species	Daphnia Magna	Guideline	OECD202
EC50 - algae and cyanobacteria		72h: 9.57 mg/L	Species	Pseudokirchneriella subcapitata	Guideline	OECD201
NOEC Cronica fish		--	Species	--	Guideline	--
NOEC Cronica aquatic invertebrates		--	Species	--	Guideline	--
NOEC Cronic algae and cyanobacteria		--	Species	--	Guideline	--

12.2 Persistence and degradability

Data not available for the mixture.

Specific biodegradation information for the substances contained

Substance: Hexamethylindanopyran	
CAS: 1222-05-5	
Biodegradation in water	Not readily biodegradable
Test time	28d
Substance: Hydrocarbons, C4, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated	
CAS: 93685-81-5	
Biodegradation in water	Readily biodegradable
Test time	--
Substance: Gamma-undecalactone / Undecan-4-olide	
CAS: 104-67-6	
Biodegradation in water	Readily biodegradable
Test time	28d
Substance: Ethyl methylphenylglycidate / Ethyl 2,3-epoxy-3-phenylbutyrate	
CAS: 77-83-8	
Biodegradation in water	Inherently biodegradable
Test time	36d
Substance: Methyl octine carbonate / Methyl non-2-yanoate	
CAS: 111-80-8	
Biodegradation in water	Readily biodegradable
Test time	28d
Substance: Allyl caproate / Allyl hexanoate	
CAS: 123-68-2	
Biodegradation in water:	Readily biodegradable
Test time	: 10d

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Substance:		4-tert-butylcyclohexyl acetate					
CAS:		32210-23-4					
Biodegradation in water		Readily biodegradable			Test time		28d
Substance:		(E)-anethole					
CAS:		4180-23-8					
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:		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 bw (terrestrial species): 2 395 L / kg bw					
Substance:		Hydrocarbons, C4, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated					
CAS:		93685-81-5					
Partition coefficient: n-octanol/water		log Pow ≥ 5.6 - ≤ 6.65 at 20°C					
BCF		Not available					
Substance:		Gamma-undecalactone / Undecan-4-olide					
CAS:		104-67-6					
Partition coefficient: octanol/water		Log Kow (Log Pow): 3.6 a 25°C					
BCF		2.01 The result indicates that the substance should not be bioaccumulative according to CLP and PBT criteria (BCF < 500 and 2000, respectively)					
Substance:		Ethyl methylphenylglycidate / Ethyl 2,3-epoxy-3-phenylbutyrate					
CAS:		77-83-8					
Partition coefficient: octanol/water		Log Kow (Log Pow): 2.8 a 25°C					
BCF		- -					
Substance:		Methyl octine carbonate / Methyl non-2-ynoate					
CAS:		111-80-8					
Partition coefficient : n-octanol/water		Log Kow (Log Pow): 3.4 a 20°C					
BCF		-					
Substance:		Allyl caproate / Allyl hexanoate					
CAS:		123-68-2					
Partition coefficient: octanol/water		Log Kow (Log Pow): 3.191 a 20°C					
BCF		102,3 l/kg p.c. – The substance is considered non-bioaccumulative.					
Substance:		4-tert-butylcyclohexyl acetate					
CAS:		32210-23-4					
Partition coefficient: n-octanol / water		Log Kow (Log Pow): 4.8 a 25°C					
BCF		334.6 L/kg w/w					
Substance:		(E)-anethole					
CAS:		4180-23-8					
Partition coefficient: octanol/water		Log Kow (Log Pow): 3.38 a 25°C					
BCF		(Aquatic species): 79.92 L/kg bw					
12.4 Mobility in soil							
Data not available for the mixture.							
Mobility information in soil specific to the substances contained							
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:		Hydrocarbons, C4, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated					
CAS:		93685-81-5					
The standard tests for this endpoint are intended for individual substances and are not appropriate for these complex substances.							
Substance:		Gamma-undecalactone / Undecan-4-olide					
CAS:		104-67-6					
The adsorption coefficient of the substance was estimated at 599,8 L/kg, corresponding to a log Koc at 2,78 . The result indicates that the substance has low mobility in soil (secondo PJ McCall et al., 1981).							
Substance:		Ethyl methylphenylglycidate / Ethyl 2,3-epoxy-3-phenylbutyrate					
CAS:		77-83-8					
Koc at 20 °C: 550 (LogKoc: 2.74)							
Substance:		Methyl octine carbonate / Methyl non-2-ynoate					
CAS:		111-80-8					
- -							
Substance:		Allyl caproate / Allyl hexanoate					
CAS:		123-68-2					
The log Koc value need not be determined as the substance and its degradation products are rapidly degraded in the environment.							
Substance:		4-tert-butylcyclohexyl acetate					
CAS:		32210-23-4					
Koc at 20 °C: 3 923							
Substance:		(E)-anethole					
CAS:		4180-23-8					
Koc at 20 °C: 718							

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12.5 Results of PBT and vPvB assessment

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

12.6 Endocrine disrupting properties

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

12.7 Other adverse effects

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

SECTION 13: Disposal considerations

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

13.1 Waste treatment methods

Container material and type:

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

Methods for waste treatment of the substance or mixture:

DANGER FEATURES (Directive 2008/98 / EC)	No hazard characteristics identified
RECOVERY OPERATIONS (Directive 2008/98 / EC)	R 13 Storage of waste pending any of the operations numbered R 1 to R 12
DISPOSAL OPERATIONS (Directive 2008/98 / EC)	D13 - Blending or mixing prior to submission to any of the operations numbered D 1 to D 12
EER CODE	20 01 39 - plastic

Methods for handling any contaminated packaging:

DANGER FEATURES (Directive 2008/98 / EC)	No hazard characteristics identified
RECOVERY OPERATIONS (Directive 2008/98 / EC)	R 13 Storage of waste pending any of the operations numbered R 1 to R 12
DISPOSAL OPERATIONS (Directive 2008/98 / EC)	D13 - Blending or mixing prior to submission to any of the operations numbered D 1 to D 12
EER CODE	15 01 02 plastic packaging

Physical / chemical properties that can affect waste treatment:

None

Special precautions for recommended waste treatment:

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

SECTION 14: Transport information

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

	ADR	IMDG	IATA
14.1 UN number or ID number		Not applicable	
14.2 UN proper shipping name		Not applicable	
14.3 Transport hazard class(es)		Not applicable	
14.4 Packing group		Not applicable	
14.5 Environmental hazards		Not applicable	
14.6 Special precautions for user		Not applicable	
14.7 Maritime transport in bulk according to IMO instruments		Not applicable	

SECTION 15: Regulatory information

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

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

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

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

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

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

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

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

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

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

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

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

Category SEVESO

Not applicable

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

The mixture does not contain an explosive precursor.

15.2 Chemical safety assessment

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

SECTION 16: Other information

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

This sheet completely replaces all previous versions.

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16.2 Key abbreviations and acronyms used in this SDS

APVR Respiratory protective equipment ATE Acute Toxicity Estimates BCF Bioconcentration Factor CAS Chemical abstract service CE European Community CLP Classification, Labelling and Packaging COV Volatile Organic Compounds DNEL Derived No Effect Level DPI Dispositivi di Protezione Individuale EC European Community EC50 Half maximal effective concentration ECHA European Chemicals Agency EER European Waste List EmS Emergency Schedules EN European normalization ERC Environmental release categories EUH Supplemental hazard information EuPCS European Product Categorisation System FPN Protection factor Nominal FFP Filtering Facepiece	FPO Operational protection factor GHS Globally Harmonized System HP Hazardous Properties IMO International Maritime Organization ISO International Standard Organization LC50 Median lethal concentration LD50 Median lethal dose N.A.S. Not otherwise specified NOEC No observed effect concentration ONU United Nations Organization PBT Persistent, Bioaccumulative and Toxic Substances vPvB Very Persistent and very Bioaccumulative substances ppm Parts per million PROC Category of processes REACH Regulation on Registration, Evaluation, Authorisation and Restriction of Chemicals STOT Specific target organ toxicity STP Sewage treatment plant UE European Union UFI Unique Identifier of Formula UNI Italian Standard Organization.
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16.3 Full text of the Classification Information set out in Section 3

Description of the hazard class and category codes set out in section 3	Description of the hazard statements set out in section 3
Aquatic Acute 1 - Hazardous to the aquatic environment — AcuteHazard, Category 1	H400 - Very toxic to aquatic life.
Aquatic Chronic 1 - Hazardous to the aquatic environment — Chronic Hazard, Category 1	H410 - Very toxic to aquatic life with long lasting effects
Flam. Liq. 3 - Flammable liquids, Hazard Category 3	H226 - Flammable liquid and vapour.
Asp. Tox. 1 - Aspiration hazard, Hazard Category 1	H304 - May be fatal if swallowed and enters airways.
Aquatic Chronic 4 - Hazardous to the aquatic environment — Chronic Hazard, Category 4	H413 - May cause long lasting harmful effects to aquatic life.
Aquatic Chronic 3 - Hazardous to the aquatic environment — Chronic Hazard, Category 3	H412 - Harmful to aquatic life with long lasting effects
Skin. Sens. 1B - Sensitisation — Skin, hazard category 1B	H317 - May cause an allergic skin reaction.
Aquatic Chronic 2 - Hazardous to the aquatic environment — Chronic Hazard, Category 2	H411 - Toxic to aquatic life with long lasting effects.
Acute Tox. 4 - Acute toxicity (oral), Hazard Category 4	H302 - Harmful if swallowed.
Skin Irrit. 2 - Skin corrosion/irritation, Hazard Category 2	H315 - Causes skin irritation.
Skin Sens. 1A - Sensitisation — Skin, hazard category 1A	H317 - May cause an allergic skin reaction.
Acute Tox. 3 - Acute toxicity (oral), Hazard Category 3	H301 - Toxic if swallowed.
Acute Tox. 3 - Acute toxicity (dermal), Hazard Category 3	H311 - Toxic in contact with skin.
Acute Tox. 3 - Acute toxicity (inhal.), Hazard Category 3	H331 - Toxic if inhaled.
STOT RE 2 - Specific target organ toxicity — Repeated exposure, Hazard Category 2	H373 - May cause damage to organs through prolonged or repeated exposure
EUH066 =Repeated exposure may cause skin dryness or cracking	
M-Factor Multiplier factor applying to substances hazardous to the aquatic environment acute or chronic toxicity of category 1	

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
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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/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/acqueil/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.gcsil.gr/	
HUN	Hungary	https://www.dguv.de/ifa/...../limit-values-hungary/index-2.jsp	https://www.biztonsagiadatlap.hu/...../5_2020-II.-6.-ITM-rendelet.pdf
ISL	Iceland	https://www.ust.is/the-environment-agency-of-iceland/chemicals/	
IRL	Ireland	https://www.dguv.de/ifa/...../limit-values-ireland/index-2.jsp	https://www.hsa.ie/eng/...../2016_CodePracticeChemicalAgentsRegulations/
ITA	Italy	https://www.dguv.de/ifa/...../limit-values-italy/index-2.jsp	http://www.preparatipericolosi.iss.it
JPN	Japan (MHLW)	https://www.dguv.de/ifa/...../limit-values-japan/index-2.jsp	https://www.mhlw.go.jp/english/index.html
JPN	Japan (JSOH)	https://www.dguv.de/ifa/...../limit-values-japan-jsoh/index-2.jsp	https://www.sanei.or.jp/
LVA	Latvia	https://www.dguv.de/ifa/...../limit-values-latvia/index-2.jsp	https://likumi.lv/doc.php?id=157382&from=off
LTU	Lithuania	http://www.gamta.lt/	
LUX	Luxembourg	http://www.ms.public.lu/fr/	
MLT	Malta	https://mccaa.org.mt/	
NZL	New Zealand	https://www.dguv.de/ifa/...../limit-values-new-zealand/index-2.jsp	https://worksafe.govt.nz/./work-health/./-std-biol-exposure-indices/
NOR	Norway	http://www.miljodirektoratet.no/	https://www.fhi.no/en/
CHN	People's Republic of China	https://www.dguv.de/ifa/...../limit-values-china/index-2.jsp	http://www.nhfp.gov.cn/zhuz/pyl/200704/38838.shtml
POL	Poland	https://www.dguv.de/ifa/...../limit-values-poland/index-2.jsp	http://www.ciop.pl/

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PRT	Portugal	http://www.inem.pt/ciav		
ROU	Romania	https://www.dguv.de/ifa/...../limit-values-romania/index-2.jsp	http://www.mmuncii.ro/.../5114-11042018_modif_HG-1218_Ag_chimici.pdf	
SGP	Singapore	https://www.dguv.de/ifa/...../limit-values-singapore/index-2.jsp	https://sso.agc.gov.sg/Act/WSHA2006	
SVK	Slovakia	http://www.ntic.sk/		
SVN	Slovenia	http://www.uk.gov.si/		
KOR	South Korea	https://www.dguv.de/ifa/...../limit-values-south-korea/index-2.jsp	http://www.kiha.kr/main/community_view.htm?uid=763&tbn=gongi&page=3	
ESP	Spain	https://www.dguv.de/ifa/...../limit-values-spain/index-2.jsp	https://www.insst.es/	
SWE	Sweden	https://www.dguv.de/ifa/...../limit-values-sweden/index-2.jsp	https://www.av.se/..hygieniska-gransvarden-afs-20181-foreskrifter/	
CHE	Switzerland	https://www.dguv.de/ifa/...../limit-values-switzerland/index-2.jsp	http://suissepro.org/	
		https://www.suva.ch/de-CH/.....		
NLD	The Netherlands	https://www.dguv.de/ifa/...../limit-values-the-netherlands/index-2.jsp	https://www.ser.nl/en	
		https://wetten.overheid.nl/BWBR0008587/2017-07-01#BijlageXIII		
TUR	Turkey	https://www.dguv.de/ifa/...../limit-values-turkey/index-2.jsp		
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. 1	Presence of component in concentration equal to or higher than the defined limit - Annex I, sect. 3.4.3 - Respiratory or skin sensitisation
H412 Aquatic Chronic 3	Additivity theory - Annex I, section 4.1.3 - Hazardous to the aquatic environment

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

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