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

1.1 Product identifier

Commercial name : **NOBLE OUD**
UFI : EK20-40KN-9003-H3TU
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.

Prevention

P264 - Wash hands thoroughly after handling.
P273 - Avoid release to the environment.

Response

P302 + P352 - IF ON SKIN: Wash with plenty of water and soap
P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention

Disposal

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

Contiene: 4-tert-butylcyclohexyl acetate, Nimberol, Heliotropine.

2.2.2 Additional regulations to be implemented on the label

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

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

2.3 Other hazards

The mixture does NOT contain PBT / vPvB substances according to Regulation (EC) 1907/2006, annex XIII in concentrations equal to or greater than 0.1% by weight.
The mixture does NOT contain substances that have been included in the list established in accordance with Article 59, paragraph 1 due to properties of interference with the endocrine system in concentrations equal to or greater than 0.1% by weight.
The mixture does NOT contain a substance identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 in concentrations equal to or greater than 0.1% by weight.

ISO 8317_ Child-resistant packaging - Requirements and testing procedures for reclosable packages
EN 862_Child-resistant packaging - Requirements and testing procedures for non-reclosable packages for non-pharmaceutical products — Not applicable
Tactile warnings of danger (ISO 11683_Packaging - Tactile warnings of danger - Requirements) : Not applicable

SECTION 3: Composition/information on ingredients

3.1 Substances

Not relevant

3.2 Mixtures

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

Index number	EC/List n°.	CAS	REACH	International Chemical Identification	X= Conc. %
- -	252-104-2	34590-94-8	01-2119450011-60	Dipropylene glycol methyl ether / PPG-2 methyl ether	5.0 < x < 6.0

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)	Notes
Not classified but, substance with exposure limits in the workplace.		- -	- -	

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	3.0 < x < 3.5

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)	Notes
Skin Sens. 1B H317	- -	GHS07- WARNING	- -	- -

Index number	EC/List n°.	CAS	REACH	International Chemical Identification	X= Conc. %
- - -	261-245-9	58430-94-7	01-2119972325-34	Trimethylhexyl acetate	2.5 < x < 3.0

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)	Notes
Skin Irrit. 2 H315, Aquatic Chronic 2 H411	- -	GHS07, GHS09 - WARNING	- -	- -

Index number	EC/List n°.	CAS	REACH	International Chemical Identification	X= Conc. %
- -	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 Supplementary Hazard Statement Code(s)	Pictograms, Signal Word Code(s)	Specific Concentration limits, M-Factors, Acute Toxicity Estimates (ATE)	Notes
Eye Irrit. 2 H319	- -	GHS07 - WARNING	- -	- -

Index number	EC/List n°.	CAS	REACH	International Chemical Identification	X= Conc. %
603-154-00-2	412-300-2	139504-68-0	01-0000015959-52	2-T-butylcyclohexyloxybutanol	1.5 < x < 2.0

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)	Notes
Aquatic Chronic 2 H411	- -	**GHS09** - WARNING	- -	- -

Index number	EC/List n°.	CAS	REACH	International Chemical Identification	X= Conc. %
- - -	233-732-6	10339-55-6	01-2119969272-32	Ethyl linalool	1.0 < x < 1.5

Hazard Class and Category Code(s), Hazard Statement Code(s)	Classification Supplementary Hazard Statement Code(s)	Pictograms, Signal Word Code(s)	Specific Concentration limits, M-Factors, Acute Toxicity Estimates (ATE)	Notes
Eye Irrit. 2 H319, Skin Irrit. 2 H315	- -	GHS07 - WARNING	- -	

Index number	EC/List n°.	CAS	REACH	International Chemical Identification	X= Conc. %
- - -	939-227-3	- -	- -	Patchouli Oil	1.0 < x < 1.5

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)	Notes
Asp. Tox. 1 H304, Aquatic Chronic 2 H411	- -	GHS08, GHS09 - DANGER	- -	- -

Index number	EC/List n°.	CAS	REACH	International Chemical Identification	X= Conc. %
- - -	942-425-2	- -	01-2120085416-52	Nimberol	0.7 < x < 0.8

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)	Notes
Skin Sens. 1 H317	- -	GHS07 - WARNING	- -	- -

Index number	EC/List n°.	CAS	REACH	International Chemical Identification	X= Conc. %
- - -	- -	469-61-4	- -	Alpha-cedrene	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)	Notes
Asp. Tox. 1 H304, Aquatic Chronic 1 H410	- -	GHS08, GHS09 - DANGER	M=1	- -

Index number	EC/List n°.	CAS	REACH	International Chemical Identification	X= Conc. %
- - -	204-409-7	120-57-0	01-2119983608-21	Heliotropine / Piperonal (DRUG PRECURSOR)	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)	Notes
Skin Sens. 1B H317	- -	GHS07 - WARNING	- -	- -

Index number	EC/List n°.	CAS	REACH	International Chemical Identification	X= Conc. %
- - -	205-527-1	142-19-8	01-2119488961-23	Allyl heptanoate	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)	Notes
Acute Tox. 3 H301, Acute Tox. 3 H311, Aquatic Acute 1 H400, Aquatic Chronic 3 H412	- -	GHS06, GHS09 - DANGER	M=1	- -

SECTION 4: First aid measures

4.1 Description of first aid measures

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

Inhalation

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

Skin

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

Eyes

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

Ingestion

SEEK MEDICAL ATTENTION IMMEDIATELY.

4.2 Most important symptoms and effects, both acute and delayed

Inhalation

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

Skin

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

Eyes

Redness.

Ingestion

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

4.3 Indication of any immediate medical attention and special treatment needed

See section 4.1 Description of first aid measures.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Water spray, CO_2, alcohol resistant foam, chemical powders depending on the materials involved in the fire.
Unsuitable extinguishing media : None in particular

5.2 Special hazards arising from the substance or mixture

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

5.3 Advice for firefighters

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

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

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

6.2 Environmental precautions

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

6.3 Methods and material for containment and cleaning up

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

Keep dry.

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

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

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

Hand over waste only to specialized companies

6.4 Reference to other sections

Refer to sections 8 and 13 for more information

SECTION 7: Handling and storage

7.1 Precautions for safe handling

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

7.2 Conditions for safe storage, including any incompatibilities

How to manage risks associated with:

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

How to control the effects of:

i)	weather conditions	Store indoors in dry environments.
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: Dipropylene glycol methyl ether / PPG-2 methyl ether
CAS: 34590-94-8

GESTIS International Limit Values

	Limit value - Eight hours		Limit value - Short term	
	ppm	mg/m³	ppm	mg/m³
Australia	50	308	- -	- -
Austria	50	307	100	614
Belgium	50 (1)	308 (1)	- -	- -
Canada - Ontario	100	- -	150	- -
Canada - Québec	100 (1)	606 (1)	150 (1)(2)	909 (1)(2)
Denmark	50 (1)	309 (1)	100 (1)(2)	618 (1)(2)
European Union	**50**	**308**	- -	- -
Finland	50	310	- -	- -
France	**50**	**308**	- -	- -
Germany (AGS)	50 (1)	310 (1)	50 (1)(2)	310 (1)(2)
Germany (DFG)	50 (1)	310 (1)	50 (1)(2)	310 (1)(2)
Hungary	- -	308	- -	308
Ireland	50	308	- -	- -
Israel	100	606	150	909
Italy	50	308	- -	- -
Latvia	50	308	- -	- -
New Zealand	100	606	150	909
Norway	50 (1)	300 (1)	- -	- -
People's Republic of China	- -	600	- -	900 (1)
Poland	- -	240	- -	280
Romania	50	308	- -	- -
Singapore	100	606	150	909
South Korea	100	600	150	900
Spain	50	308	- -	
Sweden	50	300	75 (1)	450 (1)
Switzerland	50	300	50	300
The Netherlands	- -	300	- -	- -
Turkey	50	308	- -	- -
USA - NIOSH	100	600	150 (1)	900 (1)
USA - OSHA	100	600	- -	- -
United Kingdom	50	308	- -	- -

	Remarks
Belgium	(1) Additional indication "D" means that the absorption of the agent through the skin, mucous membranes or eyes is an important part of the total exposure. It can be the result of both direct contact and its presence in the air.
Canada - Québec	(1) Skin (2) 15 minutes average value
Denmark	(1) Skin (2) 15 minutes average value
European Union	Bold-type: Indicative Occupational Exposure Limit Value (IOELV) ~ (for references see bibliography)
France	Bold type: Restrictive statutory limit values Skin
Germany (AGS)	(1) Inhalable aerosol and vapour (2) 15 minutes reference period
Germany (DFG)	(1) Inhalable fraction and vapour (2) 15 minutes average value
Italy	skin
Norway	(1) Skin
People's Republic of China	(1) 15 minutes average value
Spain	skin
Sweden	(1) 15 minutes average value
USA - NIOSH	(1) 15 minutes average value

Link DNEL value https://echa.europa.eu/it/registration-dossier/-/registered-dossier/14751

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	308 mg/m³	No hazard identified	No hazard identified		Inhalation	37.2 mg/m³	No hazard identified	No hazard identified	
Dermal	283 mg/kg bw/day	No hazard identified	No hazard identified		Dermal	121 mg/kg bw/day	No hazard identified	No hazard identified	
Oral	Not available		Not available		Oral	36 mg/kg bw/day	No hazard identified	Not available	
Eyes	Not available		Not available		Eyes	Not available		Not available	

PNEC

Freshwater	19 mg/L	Intermittent	190 mg/L	Marine water	1.9 mg/L
STP	4168 mg/L	Sediment (freshwater)	70.2 mg/kg sediment dw	Sediment (marine water)	7.02 mg/kg sediment dw
Air	No hazard identified	Soil	2.74 mg/kg soil dw	Hazard for predators	no potential for bioaccumulation

Substance: 4-tert-butylcyclohexyl acetate
CAS: 32210-23-4

GESTIS International Limit Values

	Limit value - Eight hours		Limit value - Short term	
	ppm	mg/m³	ppm	mg/m³
	- -	- -	- -	- -

	Remarks
	- -

Link DNEL value https://echa.europa.eu/it/registration-dossier/-/registered-dossier/15158

DNEL (Workers) | **DNEL (Population)**

	Systemic		Local			Systemic		Local	
	Long term	Short term	Long term	Short term		Long term	Short term	Long term	Short term
Inhalation	No hazard identified		No hazard identified		Inhalation	No hazard identified		No hazard identified	
Dermal	No hazard identified		Medium hazard (no threshold derived)		Dermal	No hazard identified		Medium hazard (no threshold derived)	
Oral	Not available		Not available		Oral	No hazard identified		Not available	
Eyes	Not available		No hazard identified		Eyes	Not available		No hazard identified	

PNEC

Freshwater	5.3 µg/L	Intermittent	53 µg/L	Marine water	12.2 mg/L
STP	12.2 mg/L	Sediment (freshwater)	2.01 mg/kg sediment dw	Sediment (marine water)	0.21 mg/kg sediment dw
Air	No hazard identified	Soil	0.42 mg/kg soil dw	Hazard for predators	66.67 mg/kg food

Substance: Trimethylhexyl acetate
CAS: 58430-94-7

GESTIS International Limit Values

Limit value - Eight hours		Limit value - Short term	
ppm	**mg/m³**	**ppm**	**mg/m³**
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Remarks
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Link DNEL value https://echa.europa.eu/it/registration-dossier/-/registered-dossier/13930

DNEL (Workers)

	Systemic		Local	
	Long term	Short term	Long term	Short term
Inhalation	5.64 mg/m³	No hazard identified	No hazard identified	
Dermal	0.8 mg/kg bw/day	No hazard identified	No hazard identified	
Oral	Not available		Not available	
Eyes	Not available		No hazard identified	

DNEL (Population)

	Systemic		Local	
	Long term	Short term	Long term	Short term
Inhalation	1.4 mg/m³	No hazard identified	No hazard identified	
Dermal	0.4 mg/m³	No hazard identified	No hazard identified	
Oral	0.4 mg/m³	No hazard identified	Not available	
Eyes	Not available		No hazard identified	

PNEC

Freshwater	7.7 µg/L	Intermittent	77 µg/L	Marine water	0.77 µg/L
STP	10 mg/L	Sediment (freshwater)	2.895 mg/kg sediment dw	Sediment (marine water)	0.29 mg/kg sediment dw
Air	No hazard identified	Soil	0.573 mg/kg soil dw	Hazard for predators	No potential for bioaccumulation

Substance: Phenethyl alcohol
CAS: 60-12-8

GESTIS International Limit Values

Limit value - Eight hours		Limit value - Short term	
ppm	mg/m³	ppm	mg/m³
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Remarks
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Link DNEL value https://echa.europa.eu/it/registration-dossier/-/registered-dossier/13615

DNEL (Workers)

	Systemic		Local	
	Long term	Short term	Long term	Short term
Inhalation	59.9 mg/m³	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	
Oral	Not available		Not available	
Eyes	Not available		Medium hazard (no threshold derived)	

DNEL (Population)

	Systemic		Local	
	Long term	Short term	Long term	Short term
Inhalation	17.7 mg/m³	No hazard identified	Hazard unknown but no further hazard information necessary as no exposure expected	
Dermal	12.7 mg/kg bw/day	No hazard identified	No hazard identified	
Oral	5.1 mg/kg bw/day		Not available	
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: 2-T-butylcyclohexyloxybutanol
CAS: 139504-68-0

GESTIS International Limit Values

Limit value - Eight hours		Limit value - Short term	
ppm	**mg/m³**	**ppm**	**mg/m³**
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Remarks
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Link DNEL value https://echa.europa.eu/it/registration-dossier/-/registered-dossier/11273

DNEL (Workers)

	Systemic		Local	
	Long term	Short term	Long term	Short term
Inhalation	17.6 mg/m³	No hazard identified	No hazard identified	
Dermal	5 mg/kg bw/day	No hazard identified	No hazard identified	
Oral	Not available		Not available	
Eyes	Not available		No hazard identified	

DNEL (Population)

	Systemic		Local	
	Long term	Short term	Long term	Short term
Inhalation	4.35 mg/m³	No hazard identified	No hazard identified	
Dermal	2.5 mg/kg bw/day	No hazard identified	No hazard identified	
Oral	2.5 mg/kg bw/day	No hazard identified	Not available	
Eyes	Not available		No hazard identified	

PNEC

Freshwater	0.022 mg/L	**Intermittent**	0.041 mg/L	**Marine water**	0.002 mg/L
STP	1 mg/L	**Sediment (freshwater)**	0.218 mg/kg sediment dw	**Sediment (marine water)**	0.022 mg/kg sediment dw
Air	No hazard identified	**Soil**	2 mg/kg soil dw	**Hazard for predators**	4.67 mg/kg food

Substance: Ethyl linalool
CAS: 10339-55-6

GESTIS International Limit Values

Limit value - Eight hours		Limit value - Short term	
ppm	mg/m³	ppm	mg/m³
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Remarks

	- -

https://echa.europa.eu/it/registration-dossier/-/registered-dossier/13181

	DNEL (Workers)					DNEL (Population)			
	Systemic		Local			Systemic		Local	
	Long term	Short term	Long term	Short term		Long term	Short term	Long term	Short term
Inhalation	3 mg/m³	18 mg/m³	No hazard identified		Inhalation	0,74 mg/m³	4,4 mg/m³	No hazard identified	
Dermal	2,7 mg/kg bw/day	5.5 mg/kg bw/day	1.6 mg/cm²		Dermal	1,4 mg/kg bw/day	2.7 mg/kg bw/day	1.6 mg/cm²	
Oral	Not available		Not available		Oral	0,2 mg/kg bw/day	1,3 mg/kg bw/day	Not available	
Eyes	Not available		Low hazard (no threshold derived)		Eyes	Not available		Low hazard (no threshold derived)	

PNEC

Freshwater	0,023 mg/L	Intermittent	0,23 mg/L	Marine water	0,002 mg/L
STP	2,2 mg/L	Sediment (freshwater)	0,223 mg/kg/sediment	Sediment (marine water)	0,022 mg/kg/sediment
Air	No hazard identified	Soil	0,031 mg/kg soil	Hazard for predators	8,53 mg/kg food

Substance:	Patchouli Oil
CAS:	- - **EC: 939-227-3**

GESTIS International Limit Values

	Limit value - Eight hours		Limit value - Short term	
	ppm	mg/m³	ppm	mg/m³
	- -	- -	- -	- -
	Remarks			
	- -			

Link https://echa.europa.eu/it/registration-dossier/-/registered-dossier/14973

	DNEL (Workers)					DNEL (Population)			
	Systemic		Local			Systemic		Local	
	Long term	Short term	Long term	Short term		Long term	Short term	Long term	Short term
Inhalation	11.48 mg/m³	68.9 mg/m³	28.71 mg/m³	172.26 mg/m³	Inhalation	2.83 mg/m³	16.99 mg/m³	7.08 mg/m³	42.48 mg/m³
Dermal	3.26 mg/kg bw/day	19.54 mg/kg bw/day	8.14 mg/cm²	48.85 mg/cm²	Dermal	1.63 mg/kg bw/day	9.77 mg/kg bw/day	4.07 mg/cm²	24.43 mg/cm²
Oral	Not available		Not available		Oral	1.63 mg/kg bw/day	9.77 mg/kg bw/day	Not available	
Eyes	Not available		No hazard identified		Eyes	Not available		No hazard identified	

PNEC

Freshwater	0.006 mg/L	Intermittent	0.006 mg/L	Marine water	0.006 mg/L
STP	10 mg/L	Sediment (freshwater)	4.6 mg/kg sediment dw	Sediment (marine water)	4.6 mg/kg sediment dw
Air	No hazard identified	Soil	0.479 mg/kg soil dw	Hazard for predators	65.1 mg/kg food

Substance:	Nimberol
CAS:	- - **EC: 942-425-2**

GESTIS International Limit Values

	Limit value - Eight hours		Limit value - Short term	
	ppm	mg/m³	ppm	mg/m³
	- -	- -	- -	- -
	Remarks			
	- -			

Link: https://echa.europa.eu/it/registration-dossier/-/registered-dossier/5740

	DNEL (Workers)					DNEL (Population)			
	Systemic		Local			Systemic		Local	
	Long term	Short term	Long term	Short term		Long term	Short term	Long term	Short term
Inhalation	No hazard identified		No hazard identified		Inhalation	No hazard identified		No hazard identified	
Dermal	No hazard identified		Medium hazard (no threshold derived)		Dermal	No hazard identified		Medium hazard (no threshold derived)	
Oral	Not available		Not available		Oral	No hazard identified		Not available	
Eyes	Not available		No hazard identified		Eyes	Not available		No hazard identified	

PNEC

Freshwater	No hazard identified	Intermittent	No hazard identified	Marine water	No hazard identified
STP	No hazard identified	Sediment (freshwater)	No hazard identified	Sediment (marine water)	No hazard identified
Air	No hazard identified	Soil	No hazard identified	Hazard for predators	No potential to cause toxic effects if accumulated (in higher organisms) via the food chain

Substance:	Heliotropine / Piperonal (DRUG PRECURSOR)
CAS:	120-57-0

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/2209

	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	17.6 mg/m³	No hazard identified	No hazard identified		**Inhalation**	4.3 mg/m³	No hazard identified	No hazard identified	
Dermal	2.5 mg/kg bw/day	No hazard identified	Medium hazard (no threshold derived)		**Dermal**	1.25 mg/kg bw/day	No hazard identified	Medium hazard (no threshold derived)	
Oral	Not available		Not available		**Oral**	1.25 mg/kg bw/day	No hazard identified	Not available	
Eyes	Not available		No hazard identified		**Eyes**	Not available		No hazard identified	

PNEC

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

Substance:	Allyl heptanoate
CAS:	142-19-8

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/12576

	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	2.97 mg/m³	Medium hazard (no threshold derived)	Hazard unknown but no further hazard information necessary as no exposure expected		Inhalation	0.73 mg/m³	Medium hazard (no threshold derived)	Hazard unknown but no further hazard information necessary as no exposure expected	
Dermal	0.84 mg/kg bw/day	Medium hazard (no threshold derived)	No hazard identified		Dermal	0.42 mg/kg bw/day	Medium hazard (no threshold derived)	No hazard identified	
Oral	Not available		Not available		Oral	0.42 mg/kg bw/day	Medium hazard (no threshold derived)	Not available	
Eyes	Not available		No hazard identified		Eyes	Not available		No hazard identified	

PNEC

Freshwater	0.12 µg/L	Intermittent	1.2 µg/L	Marine water	0.012 µg/L
STP	10 mg/L	Sediment (freshwater)	0.012 mg/kg sediment dw	Sediment (marine water)	0.001 mg/kg sediment dw
Air	No hazard identified	Soil	0.002 mg/kg soil	Hazard for predators	No potential for bioaccumulation

8.2 Exposure controls

8.2.1 Appropriate engineering controls

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

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

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

8.2.2 Individual protection measures, such as personal protective equipment

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

a) EYE/FACE PROTECTION

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

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

IN NORMAL USE THERE ARE NO PERSONAL PROTECTIVE EQUIPMENT PROVIDED

b) SKIN PROTECTION

i) Hand protection

PITTOGRAM	PPE	METHOD OF CHOOSING THE PPE			
		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
 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.	Highlights	Excellent flexibility and tear resistance	Polyvalent chemical resistance: acids, aliphatic solvents. Good resistance to sunlight and ozone.	Excellent resistance to abrasion and perforation. Excellent resistance to hydrocarbon derivatives	Good resistance to acids and bases
		Precautions	It can cause allergic reactions. Avoid contact with fatty oils and hydrocarbon derivatives.	Avoid contact with fatty oils and hydrocarbon derivatives	Avoid contact with solvents containing ketones and oxidizing acids, organic nitrogen products.	Weak mechanical resistance. Avoid contact with solvents containing ketones and aromatic solvents

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

USE WATERPROOF GLOVES

ii) other

PITTOGRAM	PPE	METHOD OF CHOOSING THE PPE

Work clothing

PPE for the body can be of different categories depending on their specific use. Under normal working conditions, normal work clothing offers characteristics that provide sufficient protection for workers. In activities presenting particular risks, specific "protective clothing" should be used which covers or replaces personal clothing and which is designed with specific protective characteristics. The basic requirements relating to the ergonomics and health of PPE for the body are: harmlessness of the materials, comfort and effectiveness factors, design, thermal resistance of the clothing and the characteristics of the operators. Please note that to ensure adequacy and mobility with full-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.

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

NO PERSONAL PROTECTIVE EQUIPMENT IS REQUIRED IN NORMAL USE

c) RESPIRATORY PROTECTION

PITTOGRAM	PPE	METHOD OF CHOOSING THE PPE

RPD (Respiratory protective devices)

PPE for respiratory protection are of the third category and must be provided with CE marking, the number of the Notified Body that issued the certification and must be provided only after information, training and specific training on their use. To define the type of RPD to use, pay attention to the oxygen rate present in the workplace, using the O_2 concentration of 17% as a limit. Carefully define the type of contaminant (Gas, steam / Dust, particles, viruses), its detection threshold and its use or not in a confined space.

The UNI EN 529 standard (Respiratory protection devices - Recommendations for selection, use, care and maintenance - Guidance document) establishing the appropriate FPO value "operational protection factor" (eg use of face masks as per standard UNI EN149 - Respiratory protective devices - Filtering half mask against particles) can be a valid aid in determining the most correct PPE.

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
Type of substance	Correct choice of filter type
	Need / opportunity to protect other parts of the face (eyes - face)
Concentrations	Filter capacity in relation to exposure time
Visibility	Reduction of protection
Freedom of movement	Reduction of weight and discomfort
Facial anatomy	Mask adequacy
Environmental conditions	

DUST FILTER RESPIRATORS

Filter respirator	Nominal Protection Factor	Operational Protection Factor
Facial Filter FFP1 Half mask + P1	4	4
Facial Filter FFP2 Half mask + P2	12	10
Facial Filter FFP3 Half mask + P3	50	30
Full face + P1	5	4
Full face + P2	20	15
Full face + P3	1000	400

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

NO PERSONAL PROTECTIVE EQUIPMENT IS REQUIRED IN NORMAL USE

d) THERMAL HAZARDS

PITTOGRAM	PPE	OBSERVATIONS

Hot/Cold

The indications provided in this section define the PPE intended to protect against possible temperature variations that the mixture causes or that the mixture itself may undergo during normal working activities. PPE must protect against excesses in external temperature by maintaining body temperature, thermally insulate while maintaining permeability to water and air to ensure sweating and moisture removal, respectively, so as not to cause heat loss. In order to protect themselves from the cold, PPE must retain a degree of flexibility that allows the operator to perform the necessary actions and to assume certain positions. PPE intended for short-term interventions or likely to receive projections of hot products, must have a calorific capacity sufficient to return most of the stored heat only after the user has removed them.

PPE intended to protect against thermal differences must have an adequate heat flow transmission coefficient to avoid any risk of damage as required by the foreseeable conditions of use.

The heat flow transmitted to the operator during the use of PPE must be such that its accumulation does not in any case reach the pain threshold or the one in which any harmful effect on health occurs. PPE must prevent, as far as possible, the penetration of liquids and must not cause injury caused by contact between their protective coating and the operator.

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

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

8.2.3 Environmental exposure controls

Prevent uncontrolled release into the environment.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

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

	Physical and chemical properties	Value	Notes or analytical method
a)	Physical state	Solid	As defined in Annex I, section 1.0 of Reg. 1272/2008
b)	Colour	Various colours	- -
c)	Odour	Characteristic of the fragrance	- -
d)	Melting point/freezing point	Not determined	- -
e)	Boiling point or initial boiling point and boiling range	Not determined	- -
f)	Flammability	NO	Applicable to gases, liquids and solids
g)	Lower and upper explosion limit	Not applicable	Not applicable to solids
h)	Flash point	Not applicable	Does not apply to gases, aerosols and solids
i)	Auto-ignition temperature	Not applicable	Only applicable to gases and liquids
j)	Decomposition temperature	Not applicable	Only applicable to self-reactive substances and mixtures, organic peroxides and other substances and mixtures which may decompose.
k)	pH	Not applicable	The mixture is not soluble in water
l)	Kinematic viscosity	Not applicable	Applies to liquids only
m)	Solubility	Insoluble in water, partially soluble in alcohol	- -
n)	Partition coefficient n-octanol/water (log value)	Not applicable	It does not apply to inorganic and ionic liquids and, as a rule, does not apply to mixtures
o)	Vapour pressure	Not determined	According to the REACH regulation, the study must not be conducted if the melting point is above 300°C (Annex VII, column 2 adaptation).
p)	Density and/or relative density	Not applicable	only applies to liquids and solids.
q)	Relative vapour density	Not applicable	only applies to gases and liquids.
r)	Particle characteristics	Not relevant. Non-particulate blend	applies only to solids

9.2 Other information

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

9.2.2 Other safety characteristics

a)	mechanical sensitivity	:	Not applicable
b)	self-accelerating polymerisation temperature	:	Not applicable
c)	formation of explosible dust/air mixtures	:	Not applicable
d)	acid/alkaline reserve	:	Not applicable
e)	evaporation rate	:	Not determinated
f)	miscibility	:	Not miscible with water
g)	conductivity	:	Not applicable
h)	corrosiveness	:	Not applicable
i)	gas group	:	Not applicable
j)	redox potential	:	Not applicable
k)	radical formation potential	:	Not applicable
l)	photocatalytic properties	:	Not applicable

Other physical and chemical parameters:

COV (Directive 2010/75 / EC) : 2.50%

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.
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:	Dipropylene glycol methyl ether / PPG-2 methyl ether
CAS:	34590-94-8

ORAL	INHALATION	DERMAL	NOTEs
Rat LD50: >5000 mg/kg bw	- -	Rabbit LD50: 9150 mg/kg bw	- -

The values included in this section are those available, at the time of writing this SDS, in the ECHA dossier in the section Toxicological information or from the supplier's indications.

EXPOSURE AND HEALTH EFFECTS	
Routes of exposure **Inhalation risk**	The substance can be absorbed into the body by inhalation of its vapour, through the skin and by ingestion. A harmful concentration in the air can be reached rather slowly on evaporation of this substance at 20°C.
Effects of short-term exposure	The vapor is irritating to the eyes and respiratory tract. The substance may cause effects on the central nervous system. This can lead to narcosis.
Effects of long-term or repeated exposure	The substance degreases the skin, which may cause dryness and cracking.

SYMPTOMS BY SPECIFIC ROUTE OF EXPOSURE	
Inhalation	Cough. Vertigo. Drowsiness.
Skin	CAN BE ABSORBED! Dry scalp. See Inhalation.
Eyes	Redness. Ache.
Ingestion	See Inhalation.
Notes :	Check for the presence of peroxides before distillation; delete if found.

Substance:	4-tert-butylcyclohexyl acetate
CAS:	32210-23-4

ORAL	INHALATION	DERMAL	NOTEs
Rat LD50: 3370 mg/kg bw	- -	Rabbit LD50: > 4680 mg/kg bw	- -

The values included in this section are those available, at the time of writing this SDS, in the ECHA dossier in the section Toxicological information or from the supplier's indications.

Substance:	Trimethylhexyl acetate
CAS:	58430-94-7

ORAL	INHALATION	DERMAL	NOTEs
Rat LD50: 4250 mg/kg bw	- -	Rabbit LD50: 5000 mg/kg bw	- -

The values included in this section are those available, at the time of writing this SDS, in the ECHA dossier in the section Toxicological information or from the supplier's indications.

Substance:	Phenethyl alcohol
CAS:	60-12-8

ORAL	INHALATION	DERMAL	NOTEs
Rat LD50: 1609.3 mg/kg bw	Rat LC50: >4.63 mg/m³ air (4h)	Rabbit LD50: 2535 mg/kg bw	- -

The values included in this section are those available, at the time of writing this SDS, in the ECHA dossier in the section Toxicological information or from the supplier's indications.

EXPOSURE AND HEALTH EFFECTS	
Routes of exposure **Inhalation risk**	The substance can be absorbed into the body by inhalation of its aerosol or vapour, through the skin and by ingestion. No indication can be given about the rate in which a harmful concentration of the substance in the air is reached on evaporation at 20°C.
Effects of short-term exposure	The substance is irritating to the eyes, the skin and the respiratory tract. The substance may cause effects on the central nervous system. If swallowed, the substance may cause vomiting and may lead to chemical pneumonitis
Effects of long-term or repeated exposure	Tests on animals indicate the possibility that this substance could cause toxicity to human reproduction or development

SYMPTOMS BY SPECIFIC ROUTE OF EXPOSURE	
Inhalation	Cough. Sore throat. Heachache. Nausea.
Skin	Redness.
Eyes	Redness. Ache.
Ingestion	Abdominal pains. Burning sensation. Also see Inhalation.
Notes :	- -

Substance:	2-T-butylcyclohexyloxybutanol
CAS:	139504-68-0

ORAL	INHALATION	DERMAL	NOTEs
LD50: 2000 mg/kg bw	- -	LD50: 2000 mg/kg bw	- -

The values included in this section are those available, at the time of writing this SDS, in the ECHA dossier in the section Toxicological information or from the supplier's indications.

Substance:	Ethyl linalool		
CAS:	10339-55-6		
ORAL	INHALATION	DERMAL	NOTEs
Rat LD50: 5283 mg/kg bw	Rat LC50: 1.0 mg/l air	Rabbit LD50: 5000 mg/kg bw	- -

The values included in this section are those available, at the time of writing this SDS, in the ECHA dossier in the section Toxicological information or from the supplier's indications.

Substance:	Patchouli Oil		
CAS:	- - EC: 939-227-3		
ORAL	INHALATION	DERMAL	NOTEs
Rat LD50: 5000 mg/kg bw	-	Rabbit LD50: 5000 mg/kg bw	- -

The values included in this section are those available, at the time of writing this SDS, in the ECHA dossier in the section Toxicological information or from the supplier's indications.

Substance:	Nimberol		
CAS:	- - EC: 942-425-2		
ORAL	INHALATION	DERMAL	NOTEs
Rat LD50: 10 470 mg/kg bw	Rat LC50: 50 000 mg/m³ air	Rat LD50: 15 800 mg/kg bw	- -

The values included in this section are those available, at the time of writing this SDS, in the ECHA dossier in the section Toxicological information or from the supplier's indications.

Substance:	Heliotropine / Piperonal (DRUG PRECURSOR)		
CAS:	120-57-0		
ORAL	INHALATION	DERMAL	NOTEs
Rat LD50: 2700 mg/kg bw	- -	Rat LD50: >5000 mg/kg bw	- -

The values included in this section are those available, at the time of writing this SDS, in the ECHA dossier in the section Toxicological information or from the supplier's indications.

Substance:	Allyl heptanoate		
CAS:	142-19-8		
ORAL	INHALATION	DERMAL	NOTEs
Rat LD50: 218 mg/kg bw	- -	Rabbit LD50: 810 mg/kg bw	- -

The values included in this section are those available, at the time of writing this SDS, in the ECHA dossier in the section Toxicological information or from the supplier's indications.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

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

11.2.2 Other information

No further data available

SECTION 12: Ecological information

Environmental Release Categories: ERC11a - Widespread use of articles with low release (indoor)

12.1 Toxicity

The product is dangerous for the environment as it is harmful to aquatic life with long lasting effects.
Use according to good working practices, avoiding to disperse the product in the environment.

Ecotoxicological information specific to the substances contained

Substance:	Dipropylene glycol methyl ether / PPG-2 methyl ether					
CAS:	34590-94-8					
LC50 – fish	96h – > 1000 mg/L	Species	Poecilia reticulata	Guideline	OECD203	
EC50 – aquatic invertebrates	48h – 1919 mg/L	Species	Daphnia Magna	Guideline	OECD202	
EC50 - aquatic algae and cyanobacteria	72h – > 1000 mg/L	Species	Pseudokirchneriella subcapitata	Guideline	OECD201	
NOEC Chronic fish	- -	Species	- -	Guideline	- -	
NOEC Chronic aquatic invertebrates	- -	Species	- -	Guideline	- -	
NOEC Chronic algae and cyanobacteria	72h – 1000 mg/L	Species	Pseudokirchneriella subcapitata	Guideline	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:	Trimethylhexyl acetate				
CAS:	58430-94-7				
LC50 – fish	96h - 7.7 mg/L	Species	Pimephales promelas	Guideline	OECD203
EC50 – aquatic invertebrates	48h – 5.4 mg/L	Species	Daphnia Magna	Guideline	OECD202
ERL50 - algae and cyanobacteria	72h – 3.8 mg/L	Species	Pseudokirchneriella supcapitata	Guideline	OECD201
NOEC Cronica fish	96h - - - mg/L	Species	- -	Guideline	- -
NOEC Cronica aquatic invertebrates	48h - - - mg/L	Species	- -	Guideline	- -
NOErL Cronic algae and cyanobacteria	72h – 0.65 mg/L	Species	Pseudokirchneriella supcapitata	Guideline	OECD201

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 Cronic algae and cyanobacteria	72 h – 0.43 g/L	Species	Scenedesmus subspicatus	Guideline	DIN 38 412

Substance:	2-T-butylcyclohexyloxybutanol				
CAS:	139504-68-0				
LC50 – fish	96h - 4.1 mg/L	Species	Oncorhynchus mykiss	Guidelines	OECD 203

EC50 – aquatic invertebrates	:	48h - 5.9 mg/L	**Species**	:	Daphnia magna	**Guidelines**	: OECD 202
EC50 - aquatic algae and cyanobacteria	:	72h - 12 mg/L	**Species**	:	Selenastrum capricornutum	**Guidelines**	: OECD 201
NOEC chronic fish	:	- -	**Species**	:	- -	**Guidelines**	: - -
NOEC chronic invertebrates	:	- -	**Species**	:	- -	**Guidelines**	: - -
NOEC chronic algae and cyanobacteria	:	72h - 1.5 mg/L	**Species**	:	Selenastrum capricornutum	**Guidelines**	: OECD 201

Substance:	Ethyl linalool
CAS:	10339-55-6

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

Substance:	Patchouli Oil
CAS:	- - **EC: 939-227-3**

LC50 – fish	:	96h - 5.7 mg/L	**Species**	:	Oncorhynchus mykiss	**Guidelines**	: OECD203
EC50 – aquatic invertebrates	:	48h – 11 mg/L	**Species**	:	Daphnia magna	**Guidelines**	: OECD202
EC50 - aquatic algae and cyanobacteria	:	72h – 73 mg/L	**Species**	:	Pseudokirchneriella subcapitata	**Guidelines**	: OECD201
NOEC chronic fish	:	- -	**Species**	:	- -	**Guidelines**	: - -
NOEC chronic invertebrates	:	- -	**Species**	:	- -	**Guidelines**	: - -
NOEC chronic algae and cyanobacteria	:	- -	**Species**	:	- -	**Guidelines**	: - -

Substance:	Nimberol
CAS:	- - **EC: 942-425-2**

LC50 – fish		96h - > 0.999 mg/L	**Species**	:	Danio rerio	**Guidelines**	: OECD203
EC50 – aquatic invertebrates		48h - 522 µg/L	**Species**	:	Daphnia magna	**Guidelines**	: OECD202
EC50 - aquatic algae and cyanobacteria		72h - > 1.42 mg/L	**Species**	:	Pseudokirchneriella subcapitata	**Guidelines**	: OECD201
NOEC chronic fish		- -	**Species**	:	- -	**Guidelines**	: - -
NOEC chronic invertebrates		- -	**Species**	:	- -	**Guidelines**	: - -
NOEC chronic algae and cyanobacteria		72h - > 1.42 mg/L	**Species**	:	Pseudokirchneriella subcapitata	**Guidelines**	: OECD201

Substance:	Heliotropine / Piperonal (DRUG PRECURSOR)
CAS:	120-57-0

LC50 – fish		96h - 2.5 mg/L	**Species**	:	Cyprinus carpio	**Guideline**	: OECD203
EC50 – aquatic invertebrates		48h – 52 mg/L	**Species**	:	Daphnia Magna	**Guideline**	: OECD202
ERL50 - algae and cyanobacteria		72h - 31 mg/L	**Species**	:	Pseudokirchneriella supcapitata	**Guideline**	: OECD201
NOEC Cronica fish		96h - - - mg/L	**Species**	:	- -	**Guideline**	: - -
NOEC Cronica aquatic invertebrates		48h - - - mg/L	**Species**	:	- -	**Guideline**	: - -
NOErL Cronic algae and cyanobacteria		72h – 4.8 mg/L	**Species**	:	Pseudokirchneriella supcapitata	**Guideline**	: OECD201

Substance:	Allyl heptanoate
CAS:	142-19-8

LC50 – fish	:	96h – 0.12 mg/L	**Species**	:	Danio rerio	**Guideline**	: OECD203
EC50 – aquatic invertebrates	:	48h – 0.89 mg/L	**Species**	:	Daphnia Magna	**Guideline**	: OECD202
ERL50 - algae and cyanobacteria	:	72h – 4.6 mg/L	**Species**	:	Desmodesmus subspicatus	**Guideline**	: OECD201
NOEC Cronica fish	:	- -	**Species**	:	- -	**Guideline**	: - -
NOEC Cronica aquatic invertebrates	:	- -	**Species**	:	- -	**Guideline**	: - -
NOErL Cronic algae and cyanobacteria	:	72h – 0.255 mg/L	**Species**	:	Desmodesmus subspicatus	**Guideline**	: OECD201

12.2 Persistence and degradability

Data not available for the mixture.

Specific biodegradation information for the substances contained

Substance:	Dipropylene glycol methyl ether / PPG-2 methyl ether
CAS:	34590-94-8

Biodegradation in water:	Easily biodegradable	**Test time :**	28d

Substance:	4-tert-butylcyclohexyl acetate
CAS:	32210-23-4

Biodegradation in water :	Easily biodegradable	**Test time :**	28d

Substance:	Trimethylhexyl acetate
CAS:	58430-94-7

Biodegradation in water:	Easily biodegradable	**Test time :**	28d

Substance:	Phenethyl alcohol
CAS:	60-12-8

Biodegradation in water:	Easily biodegradable	**Test time :**	28d

Substance:	2-T-butylcyclohexyloxybutanol
CAS:	139504-68-0

Biodegradation in water:	Not biodegradable	**Test time :**	28d

Substance:	Ethyl linalool
CAS:	10339-55-6

Biodegradation in water	Readily biodegradable	**Test time :**	28 d

Substance:	Patchouli Oil
CAS:	- - **EC: 939-227-3**

Biodegradation in water :	Easily biodegradable	**Tempo del test :**	28d

Substance:	Nimberol
CAS:	- - **EC: 942-425-2**

Biodegradation in water:	Easily biodegradable	**Test time :**	28d

Substance:	Heliotropine / Piperonal (DRUG PRECURSOR)		
CAS:	120-57-0		
Biodegradation in water:	Easily biodegradable	**Test time :**	28d

Substance:	Allyl heptanoate		
CAS:	142-19-8		
Biodegradation in water: :	Easily biodegradable	**Test time :**	28d

12.3 Bioaccumulative potential

Data not available for the mixture.

Bioaccumulation information specific to the substances contained

Substance:	Dipropylene glycol methyl ether / PPG-2 methyl ether
CAS:	34590-94-8
Partition coefficient: octanol/water	Log Kow (Log Pow): 0.004 a 25°C
BCF	The study should not be conducted because the substance has a low bioaccumulation potential based on log Kow <= 3

Substance:	4-tert-butylcyclohexyl acetate
CAS:	32210-23-4
Partition coefficient: n-octanol / water	Log Kow (Log Pow): 4.8 a 25°C
BCF	334.6 L/kg w/w

Substance:	Trimethylhexyl acetate
CAS:	58430-94-7
Partition coefficient: n-octanol / water	Log Kow (Log Pow): 4.6 a 25°C
BCF	BCF (aquatic species): 2 000 L/kg ww

Substance:	Phenethyl alcohol
CAS:	60-12-8
Partition coefficient: octanol/water	Log Kow (Log Pow): 1.3 a 20°C
BCF	The study should not be conducted because the substance has a low bioaccumulation potential based on log Kow <= 3

Substance:	2-T-butylcyclohexyloxybutanol
CAS:	139504-68-0
Partition coefficient: n-octanol / water	Log Kow (Log Pow): 3.81 a 25 °C
BCF	173 dimensionless

Substance:	Ethyl linalool
CAS:	10339-55-6
Partition coefficient: n-octanol / water	Log Kow (Log Pow): 3.3 a 20 °C
BCF	- -

Substance:	Patchouli Oil
CAS:	- - **EC: 939-227-3**
Partition coefficient: n-octanol / water	Log Pow 3.2 to 5.7 at 35 °C
BCF	considered potentially bioaccumulative

Substance:	Nimberol
CAS:	- - **EC: 942-425-2**
Partition coefficient: n-octanol / water	Log Kow (Log Pow): 5.79 a 25°C
BCF	- -

Substance:	Heliotropine / Piperonal (DRUG PRECURSOR)
CAS:	120-57-0
Partition coefficient: n-octanol / water	Log Kow (Log Pow): 1.2 a 35°C
BCF	The study should not be conducted because the substance has a low bioaccumulation potential based on log Kow <= 3

Substance:	Allyl heptanoate
CAS:	142-19-8
Partition coefficient: n-octanol / water	Log Kow (Log Pow): 3.97 a 20°C
BCF	473,2 L/kh ww

12.4 Mobility in soil

Data not available for the mixture.

Mobility information in soil specific to the substances contained

Substance:	Dipropylene glycol methyl ether / PPG-2 methyl ether
CAS:	34590-94-8

According to column 2 of Annex VIII of REACH, adsorption/desorption studies may be dispensed with for substances with a low adsorption potential or if the substance and its degradation products decompose rapidly. Dipropylene glycol methyl ether is readily biodegradable and has a log Kow (log Kow < 1), so it has a low potential for adsorption to organic matter.

Substance:	4-tert-butylcyclohexyl acetate
CAS:	32210-23-4

Koc at 20 °C: 3 923

Substance:	Trimethylhexyl acetate
CAS:	58430-94-7

Koc a 20 °C: 3 723.92 [Log Koc: 3.571] The substance is considered to be "slightly mobile" in sediments and soils (McCall 1981).

Substance:	Phenethyl alcohol
CAS:	60-12-8

The substance is expected to have a low adsorption potential since 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 OECD guideline 121

Substance:	2-T-butylcyclohexyloxybutanol
CAS:	139504-68-0

Koc at 20 °C: 63.1 (Log Koc: 1,80)

Substance:	Ethyl linalool
CAS:	10339-55-6

In accordance with column 2 of Annex VIII of the REACH Regulation, adsorption/desorption screening is not necessary as the substance is readily biodegradable and therefore degrades rapidly in the environment.

Substance:	Patchouli Oil
CAS:	- - **EC: 939-227-3**

Patchouli oil chromatograms show three major peaks corresponding to adsorption coefficients (log Koc) of 3.63, 4.58 and 4.63. For environmental risk assessment purposes, corresponding adsorption coefficients (Koc) have been assigned to the three constituents which have been identified to represent related constituent blocks in Patchouli oil. These are patchouli alcohol (Koc = 4265), alpha-bulnesene (Koc = 38019) and alpha-guaiene (Koc = 42658).

Substance:	Nimberol
CAS:	- - **EC: 942-425-2**

Koc a 20 °C: 4 677 [= logKoc: 3,67]

Substance:	Heliotropine / Piperonal (DRUG PRECURSOR)
CAS:	120-57-0

The substance is expected to have a low potential for adsorption as it has a low partition coefficient of water in octanol and is readily biodegradable.
Information on Henry's Law constant and distribution patterns is not required in REACH and no other distribution data is available.

Substance:	Allyl heptanoate
CAS:	142-19-8

Koc = 968.3 [= LogKoc: 2.986]

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

Product: CESARE NOBLE OUD **Category SEVESO:** - -

Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors, amending Regulation (EC) No 1907/2006 and repealing Regulation (EU) No 98/2013
The mixture does not contain an explosive precursor.

15.2 Chemical safety assessment

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

SECTION 16: Other information

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

This sheet completely replaces all previous versions.

16.2 Key abbreviations and acronyms used in this SDS

APVR	Respiratory protective equipment	**FPO**	Operational protection factor
ATE	Acute Toxicity Estimates	**GHS**	Globally Harmonized System
BCF	Bioconcentration Factor	**HP**	Hazardous Properties
CAS	Chemical abstract service	**IMO**	International Maritime Organization
CE	European Community	**ISO**	International Standard Organization
CLP	Classification, Labelling and Packaging	**LC50**	Median lethal concentration
COV	Volatile Organic Compounds	**LD50**	Median lethal dose
DNEL	Derived No Effect Level	**N.A.S.**	Not otherwise specified
DPI	Dispositivi di Protezione Individuale	**NOEC**	No observed effect concentration
EC	European Comunity	**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 milion
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 Orgnization.

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
Skin. Sens. 1B - Sensitisation — Skin, hazard category 1B	H317 - May cause an allergic skin reaction.
Skin Irrit. 2 - Skin corrosion/irritation, Hazard Category 2	H315 - Causes skin irritation
Aquatic Chronic 2 -Hazardous to the aquatic environment — Chronic Hazard, Category 2	H411 - Toxic to aquatic life with long lasting effects.
Eye Irrit. 2 - Serious eye damage/eye irritation, Hazard Category 2	H319 - Causes serious eye irritation
Asp. Tox. 1 - Aspiration hazard, Hazard Category 1	H304 - May be fatal if swallowed and enters airways.
Skin. Sens. 1 - Sensitisation — Skin, hazard category 1	H317 - May cause an allergic skin reaction.
Aquatic Chronic 1 -Hazardous to the aquatic environment — Chronic Hazard, Category 1	H410 - Very toxic to aquatic life with long lasting effects
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.
Aquatic Acute 1 -Hazardous to the aquatic environment — AcuteHazard, Category 1	H400 - Very toxic to aquatic life.
Aquatic Chronic 3 -Hazardous to the aquatic environment — Chronic Hazard, Category 3	H412 - Harmful to aquatic life with long lasting effects

Indicazioni di pericolo supplementari esposte alla sezione 3
None

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

16.4 Bibliographical references and main data sources

ECHA	European Chemicals Agency	**OSHA**	European Agency for Safety and Health at Work	**IARC**	International Agency for Research on Cancer
TOXNET	Toxicology Data Network	**WHO**	World Health Organization	**ACGIH**	American Conference of Governmental Industrial Hygienists
CheLIST	Chemical Lists Information System	**ICSCs**	International Chemical Safety Cards	**ILO**	International Labour Organization
IPCS	International Programme on Chemical Safety (Cards)	**NIOSH**	Registry of toxic effects of chemical substances (1983)	**IFA**	Institut fur 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/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-québec/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	Croazia	https://www.hzt.hr	
DNK	Denmark	https://www.dguv.de/ifa/...../limit-values-denmark/index-2.jsp	https://www.retsinformation.dk/eli/lta/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.gcsl.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	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.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.nhfpc.gov.cn/zhuz/pyl/200704/38838.shtml
POL	Poland	https://www.dguv.de/ifa/...../limit-values-poland/index-2.jsp	http://www.ciop.pl/
PRT	Portugal	http://www.inem.pt/ciav	
ROU	Romania	https://www.dguv.de/ifa/...../limit-values-romania/index-2.jsp	http://www.mmuncii.ro/.../5114-11042018_modif_HG-1218_Ag_chimici.pdf
SGP	Singapore	https://www.dguv.de/ifa/...../limit-values-singapore/index-2.jsp	https://sso.agc.gov.sg/Act/WSHA2006
SVK	Slovakia	http://www.ntic.sk/	
SVN	Slovenia	http://www.uk.gov.si/	
KOR	South Korea	https://www.dguv.de/ifa/...../limit-values-south-korea/index-2.jsp	http://www.kiha.kr/main/community_view.htm?uid=763&tbn=gongi&page=3
ESP	Spain	https://www.dguv.de/ifa/...../limit-values-spain/index-2.jsp	https://www.insst.es/
SWE	Sweden	https://www.dguv.de/ifa/...../limit-values-sweden/index-2.jsp	https://www.av.se/../hygieniska-gransvarden-afs-20181-foreskrifter/
CHE	Switzerland	https://www.dguv.de/ifa/...../limit-values-switzerland/index-2.jsp	http://suissepro.org/
		https://www.suva.ch/de-CH/.....	
NLD	The Netherlands	https://www.dguv.de/ifa/...../limit-values-the-netherlands/index-2.jsp	https://www.ser.nl/en
		https://wetten.overheid.nl/BWBR0008587/2017-07-01#BijlageXIII	
TUR	Turkey	https://www.dguv.de/ifa/...../limit-values-turkey/index-2.jsp	
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
- ADR training for personnel involved in handling
- Training on the use of PPE

More information

Safety Data Sheet compliant with regulation (EU) n. 2020/878 of 18 June 2020

This document has been drawn up by a competent SDS technician who has received adequate training and is certified according to the reference practice UNI / PdR 60: 2019. Certificate issued by INTERTEK ITALIA S.p.A. Registration number: EPTAS2018-00225 exp. 25-Nov-2023

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END OF SAFETY DATA SHEET

This safety data sheet has been translated with an automatic system.
We thank all the people who want to report any anomalies in the translation.