

## Safety Data Sheet

According to Annex II to REACH - Regulation 2020/878 and to Annex II to UK REACH

This Safety Data Sheet cancels and replaces all preceding SDS for this product.

### SECTION 1. Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Code: CM1017  
 Product name: FR LINFA  
 Chemical name and synonym: Essence in hydro-alcoholic solution  
 UFI: 1R40-T00P-T009-17XK

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

Intended use: Perfume for the environment

Identified Uses	Industrial	Professional	Consumer
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Consumer use

✓

✓

#### Uses Advised Against

Not to be used as a personal perfume.

#### 1.3. Details of the supplier of the safety data sheet

Name: CULTI MILANO SpA  
 Full address: Via dell'Aprica, 12  
 District and Country: 20158 Milano (MI)  
 Italy  
 Tel. +39 02/49784974  
 Fax +39 02/49789135

e-mail address of the competent person

responsible for the Safety Data Sheet: culti@culti.com

#### 1.4. Emergency telephone number

For urgent inquiries refer to

CULTI MILANO SpA - Tel. +39 02/49784974 (Contact from Monday to Friday from 8.30 / 12.30 AM- 1.30 / 6.00 PM)

#### ITALIAN POISON CENTER

Ospedale Niguarda Cà Granda - Milano Tel. +39 02/66101029

CAV Centro Nazionale Informazione Tossicologica - Pavia Tel. +39 0382/24444

Centro Antiveleni Bergamo - +39 80011858 (CAV Ospedali Riuniti - Bergamo)

Centro Antiveleni Verona - +39 800011858 (Azienda Ospedaliera Integrata - Verona)

Centro Antiveleni Firenze - Tel. +39 055/7947819 (Azienda Ospedaliera 'Careggi' U.O. Tossicologia Medica-Firenze)

Centro Antiveleni Roma - Tel. +39 06/3054343 (CAV Policlinico Gemelli - Roma)

Centro Antiveleni Roma - Tel. +39 06/49978000 (CAV Policlinico Umberto I - Roma)

Centro Antiveleni Roma - Tel. +39 06/68593726 (CAV Osp. Pediatrico 'Bambino Gesù' DEA - Roma)

Centro Antiveleni Napoli - Tel. +39 081/7472870 (CAV Ospedale Cardarelli - Napoli)

Centro Antiveleni Foggia - Tel. +39 800183459 (CAV Az. Osp. Univ. Foggia - Foggia)

### SECTION 2. Hazards identification

#### 2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2020/878.

Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:

Flammable liquid, category 2	H225	Highly flammable liquid and vapour.
Eye irritation, category 2	H319	Causes serious eye irritation.
Hazardous to the aquatic environment, chronic toxicity, category 3	H412	Harmful to aquatic life with long lasting effects.

## FR LINFA

## 2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:



Signal words:

**Danger**

Hazard statements:

<b>H225</b>	Highly flammable liquid and vapour.
<b>H319</b>	Causes serious eye irritation.
<b>H412</b>	Harmful to aquatic life with long lasting effects.
<b>EUH208</b>	Contains: alpha-Isomethyl ionone, 3-p-cumenyl-2-methylpropionaldehyde, Ethanone, 1- (1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphtalenyl) -, Linalyl acetate, Oxacyclohexadecan-2-one, 2-Phenylmethylenecetanal, Linalool, Benzyl salicylate May produce an allergic reaction.

Precautionary statements:

<b>P501</b>	Dispose of contents / container to local rulements.
<b>P210</b>	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
<b>P280</b>	Wear protective gloves/ protective clothing / eye protection / face protection.
<b>P101</b>	If medical advice is needed, have product container or label at hand.
<b>P370+P378</b>	In case of fire: use chemical extinguisher to extinguish.
<b>P102</b>	Keep out of reach of children.

PACK2 The packing must have tactile indications of danger for blind people.

## 2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage  $\geq$  than 0,1%.

The product does not contain substances with endocrine disrupting properties in concentration  $\geq$  0.1%.

## SECTION 3. Composition/information on ingredients

## 3.2. Mixtures

Contains:

Identification	x = Conc. %	Classification (EC) 1272/2008 (CLP)
<b>ETHANOL</b>		
CAS 64-17-5	$86 \leq x < 90$	Flam. Liq. 2 H225, Eye Irrit. 2 H319
EC 200-578-6		
INDEX 603-002-00-5		
REACH Reg. 01-2119457610-43-0000		
<b>1,3,4,6,7,8-Hexahydro-4,6,6,7,8,8-hexamethylcyclopenta (g) -2-benzopyran (HHCB)</b>		
CAS 1222-05-5	$1 \leq x < 1,5$	Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1

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EC 214-946-9		
INDEX -		
REACH Reg. 01-2119488227-29-0000		
<b>Benzyl salicylate</b>		
CAS 118-58-1	$0,7 \leq x < 0,8$	Eye Irrit. 2 H319, Skin Sens. 1B H317, Aquatic Chronic 3 H412
EC 204-262-9		
INDEX -		
REACH Reg. 01-2119969442-31-0000		
<b>Linalool</b>		
CAS 78-70-6	$0,5 \leq x < 0,6$	Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1B H317
EC 201-134-4		
INDEX 603-235-00-2		
REACH Reg. 01-2119474016-42-0000		
<b>3-p-cumenyl-2-methylpropionaldehyde</b>		
CAS 103-95-7	$0,3 \leq x < 0,35$	Skin Irrit. 2 H315, Skin Sens. 1B H317, Aquatic Chronic 3 H412
EC 203-161-7		
INDEX -		
REACH Reg. 01-2119970582-32-0000		
<b>Ethanone, 1- (1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphtalenyl) -</b>		
CAS 54464-57-2	$0,3 \leq x < 0,35$	Skin Irrit. 2 H315, Skin Sens. 1B H317, Aquatic Chronic 1 H410 M=1
EC 259-174-3		
INDEX -		
REACH Reg. 01-2119489989-04-0000		
<b>Oxacyclohexadecan-2-one</b>		
CAS 106-02-5	$0,3 \leq x < 0,35$	Skin Sens. 1B H317, Aquatic Chronic 2 H411
EC 203-354-6		
INDEX -		
REACH Reg. 01-2119987323-31		
<b>Linalyl acetate</b>		
CAS 115-95-7	$0,3 \leq x < 0,35$	Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1B H317
EC 204-116-4		
INDEX -		
REACH Reg. 01-2119983608-21-0000		
<b>2-Phenylmethylenooctanal</b>		
CAS 165184-98-5	$0,3 \leq x < 0,35$	Skin Sens. 1 H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 2 H411
EC 639-566-4		
INDEX -		
REACH Reg. 01-2119533092-50		
<b>alpha-Isomethyl ionone</b>		
CAS 127-51-5	$0,15 \leq x < 0,2$	Skin Sens. 1B H317, Aquatic Chronic 2 H411
EC 204-846-3		
INDEX -		
<b>cis-3-Hexenyl salicylate</b>		

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CAS 65405-77-8	0,15 ≤ x < 0,2	Aquatic Acute 1 H400 M=1, Aquatic Chronic 2 H411
EC 265-745-8		
INDEX -		
REACH Reg. 01-2119987320-37-0000		

The full wording of hazard (H) phrases is given in section 16 of the sheet.

## SECTION 4. First aid measures

#### 4.1. Description of first aid measures

**EYES:** Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

**SKIN:** Remove contaminated clothing. Wash immediately with plenty of water. If irritation persists, get medical advice/attention. Wash contaminated clothing before using it again.

**INHALATION:** Remove to open air. In the event of breathing difficulties, get medical advice/attention immediately.

**INGESTION:** Get medical advice/attention. Induce vomiting only if indicated by the doctor. Never give anything by mouth to an unconscious person, unless authorised by a doctor.

#### 4.2. Most important symptoms and effects, both acute and delayed

Specific information on symptoms and effects caused by the product are unknown.

**4.3. Indication of any immediate medical attention and special treatment needed**

Information not available.

## SECTION 5. Firefighting measures

### 5.1. Extinguishing media

## SUITABLE EXTINGUISHING EQUIPMENT

Extinguishing substances are: carbon dioxide, foam, chemical powder. For product loss or leakage that has not caught fire, water spray can be used to disperse flammable vapours and protect those trying to stem the leak.

## UNSUITABLE EXTINGUISHING EQUIPMENT

Do not use jets of water. Water is not effective for putting out fires but can be used to cool containers exposed to flames to prevent explosions.

## 5.2. Special hazards arising from the substance or mixture

## HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Excess pressure may form in containers exposed to fire at a risk of explosion. Do not breathe combustion products.

### 5.3. Advice for firefighters

## GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

## SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

## SECTION 6. Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

Send away individuals who are not suitably equipped. Use explosion-proof equipment. Eliminate all sources of ignition (cigarettes, flames, sparks, etc.) from the leakage site.

## 6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

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**6.3. Methods and material for containment and cleaning up**  
 Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.  
 Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

**6.4. Reference to other sections**  
 Any information on personal protection and disposal is given in sections 8 and 13.

SECTION 7. Handling and storage

**7.1. Precautions for safe handling**  
 Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. Without adequate ventilation, vapours may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire. Avoid bunching of electrostatic charges. When performing transfer operations involving large containers, connect to an earthing system and wear antistatic footwear. Vigorous stirring and flow through the tubes and equipment may cause the formation and accumulation of electrostatic charges. In order to avoid the risk of fires and explosions, never use compressed air when handling. Open containers with caution as they may be pressurised. Do not eat, drink or smoke during use. Avoid leakage of the product into the environment.

**7.2. Conditions for safe storage, including any incompatibilities**  
 Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Store in a cool and well ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition. Keep containers away from any incompatible materials, see section 10 for details.

**7.3. Specific end use(s)**  
 Information not available.

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Regulatory References:

FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS
GBR	United Kingdom	EH40/2005 Workplace exposure limits (Fourth Edition 2020)
	TLV-ACGIH	ACGIH 2021

ETHANOL					
Threshold Limit Value					
Type	Country	TWA/8h		STEL/15min	
		mg/m3	ppm	mg/m3	ppm
VLEP	FRA	1900	1000	9500	5000
WEL	GBR	1920	1000		
TLV-ACGIH				1884	1000
Predicted no-effect concentration - PNEC					
Normal value in fresh water				0,96	mg/l
Normal value in marine water				0,79	mg/l
Normal value for fresh water sediment				3,6	mg/kg/d
Normal value for marine water sediment				2,9	mg/kg/d
Normal value for water, intermittent release				2,75	mg/l
Normal value of STP microorganisms				580	mg/l
Health - Derived no-effect level - DNEL / DMEL					
Effects on consumers				Effects on workers	

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Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Inhalation				950 mg/m3		1884 mg/m3		
Skin								343 mg/kg/d
1,3,4,6,7,8-Hexahydro-4,6,6,7,8,8-hexamethylcyclopenta (g) -2-benzopyran (HHCB)								
Predicted no-effect concentration - PNEC								
Normal value in fresh water				0,0068	mg/l			
Normal value in marine water				440	ng/L			
Normal value for fresh water sediment				2	mg/kg/d			
Normal value for marine water sediment				0,394	mg/kg/d			
Normal value of STP microorganisms				1	mg/l			
Normal value for the terrestrial compartment				1,5	mg/kg/d			
Health - Derived no-effect level - DNEL / DMEL								
	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				2,3 mg/kg bw/d				
Inhalation				4 mg/m3				13,5 mg/m3
Skin				22 mg/kg bw/d				36,7 mg/kg bw/d
Benzyl salicylate								
Predicted no-effect concentration - PNEC								
Normal value in fresh water				0,00103	mg/l			
Normal value in marine water				103	ng/L			
Normal value for fresh water sediment				0,583	mg/kg/d			
Normal value for marine water sediment				0,0583	mg/kg/d			
Normal value for water, intermittent release				0,0103	mg/l			
Normal value of STP microorganisms				10	mg/l			
Normal value for the terrestrial compartment				1,41	mg/kg/d			
Health - Derived no-effect level - DNEL / DMEL								
	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Inhalation				1,37 mg/m3				7,8 mg/m3
Skin				0,790 mg/kg bw/d				2,21 mg/kg bw/d
Linalool								
Predicted no-effect concentration - PNEC								
Normal value in fresh water				0,2	mg/l			
Normal value in marine water				0,02	mg/l			
Normal value for fresh water sediment				2,22	mg/kg/d			
Normal value for marine water sediment				0,222	mg/kg/d			
Normal value of STP microorganisms				10	mg/l			
Normal value for the terrestrial compartment				0,327	mg/kg/d			
Health - Derived no-effect level - DNEL / DMEL								
	Effects on				Effects on			

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	consumers			workers				
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				2,49 mg/kg bw/d				
Inhalation				4,33 mg/m3				24,58 mg/m3
Skin			1,5 mg/cm2	1,25 mg/kg bw/d				3,5 mg/kg bw/d

#### 2-Phenylmethylenoctanal

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,00126	mg/l
Normal value in marine water	126	ng/L
Normal value for fresh water sediment	3,2	mg/kg/d
Normal value for marine water sediment	0,064	mg/kg/d
Normal value for water, intermittent release	0,00247	mg/l
Normal value of STP microorganisms	10	mg/l
Normal value for the terrestrial compartment	0,398	mg/kg/d

#### Health - Derived no-effect level - DNEL / DMEL

	Effects on consumers			Effects on workers				
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				0,056 mg/kg bw/d				
Inhalation			4,71 mg/m3	0,019 mg/m3				0,078 mg/m3
Skin			0,0787 mg/cm2	9,11 mg/kg bw/d			0,525 mg/cm2	18,2 mg/kg bw/d

#### Linalyl acetate

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,011	mg/l
Normal value in marine water	0,0011	mg/l
Normal value for fresh water sediment	0,609	mg/kg/d
Normal value for marine water sediment	0,0609	mg/kg/d
Normal value of STP microorganisms	1	mg/l
Normal value for the terrestrial compartment	0,115	mg/kg/d

#### Health - Derived no-effect level - DNEL / DMEL

	Effects on consumers			Effects on workers				
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				0,200 mg/kg bw/d				
Inhalation				0,680 mg/m3				2,75 mg/m3
Skin				1,25 mg/kg bw/d				2,5 mg/kg bw/d

#### Oxacyclohexadecan-2-one

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,0027	mg/l
Normal value in marine water	270	ng/L
Normal value for fresh water sediment	21	mg/kg/d
Normal value for marine water sediment	4,2	mg/kg/d

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Normal value of STP microorganisms					10		mg/l	
Normal value for the terrestrial compartment					5,44		mg/kg/d	
Ethanone, 1- (1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphtalenyl) -								
Predicted no-effect concentration - PNEC								
Normal value in fresh water					0,0044		mg/l	
Normal value in marine water					440		ng/L	
Normal value for fresh water sediment					3,73		mg/kg/d	
Normal value for marine water sediment					0,75		mg/kg/d	
Normal value of STP microorganisms					10		mg/l	
Normal value for the terrestrial compartment					2,7		mg/kg/d	
Health - Derived no-effect level - DNEL / DMEL								
		Effects on consumers			Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Inhalation				9 mg/m3				30 mg/m3
Skin				17,2 mg/kg bw/d				28,7 mg/kg bw/d
3-p-cumenyl-2-methylpropionaldehyde								
Predicted no-effect concentration - PNEC								
Normal value in fresh water					0,0088		mg/l	
Normal value in marine water					880		ng/L	
Normal value for fresh water sediment					1,02		mg/kg/d	
Normal value for marine water sediment					0,102		mg/kg/d	
Normal value for water, intermittent release					0,014		mg/l	
Normal value of STP microorganisms					1		mg/l	
Normal value for the terrestrial compartment					0,199		mg/kg/d	
Health - Derived no-effect level - DNEL / DMEL								
		Effects on consumers			Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Inhalation				0,220 mg/m3				1,23 mg/m3
Skin				0,130 mg/kg bw/d				0,350 mg/kg bw/d
cis-3-Hexenyl salicylate								
Predicted no-effect concentration - PNEC								
Normal value in fresh water					610		ng/L	
Normal value in marine water					61		ng/L	
Normal value for fresh water sediment					0,11		mg/kg/d	
Normal value for marine water sediment					0,011		mg/kg/d	
Normal value for water, intermittent release					0,0061		mg/l	
Normal value of STP microorganisms					10		mg/l	
Normal value for the terrestrial compartment					0,0217		mg/kg/d	
Health - Derived no-effect level - DNEL / DMEL								
		Effects on consumers			Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic



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Oral	0,230 mg/kg bw/d	
Inhalation	0,390 mg/m3	1,59 mg/m3
Skin	0,450 mg/kg bw/d	0,900 mg/kg bw/d

<b>alpha-Isomethyl ionone</b>								
Predicted no-effect concentration - PNEC								
Normal value in fresh water	0,00143			mg/l				
Normal value in marine water	0,000143			mg/l				
Normal value for fresh water sediment	0,443			mg/kg/d				
Normal value for marine water sediment	0,0443			mg/kg/d				
Normal value for water, intermittent release	0,0143			mg/l				
Normal value of STP microorganisms	10			mg/l				
<b>Health - Derived no-effect level - DNEL / DMEL</b>								
	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Inhalation				1,45 mg/m3				8,22 mg/m3
Skin				0,0446 mg/kg bw/d				0,375 mg/kg bw/d

#### Legend:

(C) = CEILING; INHAL = Inhalable Fraction; RESP = Respirable Fraction; THORA = Thoracic Fraction.

VND = hazard identified but no DNEL/PNEC available; NEA = no exposure expected; NPI = no hazard identified.

## 8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

### HAND PROTECTION

Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

### SKIN PROTECTION

Wear category I professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

Consider the appropriateness of providing antistatic clothing in the case of working environments in which there is a risk of explosion.

### EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

### RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear

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open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

## ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

## SECTION 9. Physical and chemical properties

## 9.1. Information on basic physical and chemical properties

Properties	Value	Information
Appearance	clear liquid	Concentration: 100 % Temperature: 20 °C
Colour	colourless	Concentration: 100 % Temperature: 20 °C
Odour	characteristic	Concentration: 100 % Temperature: 20 °C
Odour threshold	Not applicable	
Melting point / freezing point	Not available	
Initial boiling point	80 °C	Concentration: 100 %
Flammability	flammable liquid	
Lower explosive limit	3,5 % (v/v)	
Upper explosive limit	15 % (v/v)	
Flash point	< 23 °C	Concentration: 100 %
Auto-ignition temperature	430 °C	Concentration: 100 %
pH	7	Concentration: 100 % Temperature: 20 °C
Kinematic viscosity	Not available	
Solubility	partially soluble in water	Concentration: 100 % Temperature: 20 °C
Partition coefficient: n-octanol/water	Not available	
Vapour pressure	Not available	
Density and/or relative density	0,82 - 0,840 g/cm <sup>3</sup>	Concentration: 100 % Temperature: 20 °C
Relative vapour density	Not available	
Particle characteristics	Not applicable	

## 9.2. Other information

## 9.2.1. Information with regard to physical hazard classes

Information not available

## 9.2.2. Other safety characteristics

VOC (Directive 2010/75/EU)	88,18 % - 731,86 g/litre	Concentration: 100 %
VOC (volatile carbon)	45,46 % - 386,44 g/litre	Concentration: 100 %
Oxidising properties	not oxidizing	Concentration: 100 % Temperature: 20 °C

## SECTION 10. Stability and reactivity

### 10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

### 10.2. Chemical stability

The product is stable in normal conditions of use and storage.

### 10.3. Possibility of hazardous reactions

The vapours may also form explosive mixtures with the air.

#### ETHANOL

Risk of explosion on contact with: alkaline metals,alkaline oxides,calcium hypochlorite,sulphur monofluoride,acetic anhydride,acids,concentrated hydrogen peroxide,perchlorates,perchloric acid,perchloronitrile,mercury nitrate,nitric acid,silver,silver nitrate,ammonia,silver oxide,ammonia,strong oxidising agents,nitrogen dioxide.May react dangerously with: bromoacetylene,chlorine acetylene,bromine trifluoride,chromium trioxide,chromyl chloride,fluorine,potassium tert-butoxide,lithium hydride,phosphorus trioxide,black platinum,zirconium (IV) chloride,zirconium (IV) iodide.Forms explosive mixtures with: air.

### 10.4. Conditions to avoid

Avoid overheating. Avoid bunching of electrostatic charges. Avoid all sources of ignition.

#### ETHANOL

Avoid exposure to: sources of heat,naked flames.

### 10.5. Incompatible materials

Information not available.

### 10.6. Hazardous decomposition products

In the event of thermal decomposition or fire, gases and vapours that are potentially dangerous to health may be released.

## SECTION 11. Toxicological information

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.

It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

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

#### Metabolism, toxicokinetics, mechanism of action and other information

Information not available

#### Information on likely routes of exposure

Information not available

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

Information not available

#### Interactive effects

Information not available

### ACUTE TOXICITY

ATE (Inhalation) of the mixture:

Not classified (no significant component)

ATE (Oral) of the mixture:

Not classified (no significant component)

ATE (Dermal) of the mixture:

Not classified (no significant component)

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#### ETHANOL

LD50 (Oral): > 5000 mg/kg Rat  
LC50 (Inhalation vapours): 120 mg/l/4h Pimephales promelas

#### 1,3,4,6,7,8-Hexahydro-4,6,6,7,8,8-hexamethylcyclopenta (g) -2-benzopyran (HHCB)

LD50 (Oral): 2000 mg/kg Rat  
LD50 (Dermal): 2000 mg/kg Rabbit

#### Benzyl salicylate

LD50 (Oral): 3000 mg/kg Rat  
LD50 (Dermal): 2000 mg/kg Rabbit

#### Linalool

LD50 (Oral): 2790 mg/kg Rat  
LD50 (Dermal): 5610 mg/kg Rabbit

#### 2-Phenylmethylenecetanal

LD50 (Oral): 3100 mg/kg Rat  
LD50 (Dermal): 3000 mg/kg Rabbit

#### Linalyl acetate

LD50 (Oral): 9000 mg/kg Rat  
LD50 (Dermal): 5000 mg/kg Rabbit

#### Oxacyclohexadecan-2-one

LD50 (Oral): 2000 mg/kg Rat  
LD50 (Dermal): 2000 mg/kg Rat

#### Ethanone, 1- (1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphtalenyl) -

LD50 (Oral): 5000 mg/kg Rat  
LD50 (Dermal): 5000 mg/kg Rat

#### 3-p-cumenyl-2-methylpropionaldehyde

LD50 (Oral): 3180 mg/kg Rat  
LD50 (Dermal): 5000 mg/kg Rat

#### cis-3-Hexenyl salicylate

LD50 (Oral): > 3000 mg/kg Rat  
LD50 (Dermal): 2000 mg/kg Rabbit

#### alpha-Isomethyl ionone

LD50 (Oral): 5000 mg/kg Rat  
LD50 (Dermal): 5000 mg/kg Rabbit

#### SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard class

#### SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye irritation

#### RESPIRATORY OR SKIN SENSITISATION

May produce an allergic reaction.

Contains:

alpha-Isomethyl ionone

3-p-cumenyl-2-methylpropionaldehyde

Ethanone, 1- (1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphtalenyl) -

Linalyl acetate

Oxacyclohexadecan-2-one

2-Phenylmethylenecetanal

Linalool

Benzyl salicylate

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Respiratory sensitization

Information not available

Skin sensitization

Information not available

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

Adverse effects on sexual function and fertility

Information not available

Adverse effects on development of the offspring

Information not available

Effects on or via lactation

Information not available

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

Target organs

Information not available

Route of exposure

Information not available

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

Target organs

Information not available

Route of exposure

Information not available

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

**11.2. Information on other hazards**

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with human health effects under evaluation.

**SECTION 12. Ecological information**

This product is dangerous for the environment and the aquatic organisms. In the long term, it have negative effects on aquatic environment.

**12.1. Toxicity**

Benzyl salicylate

LC50 - for Fish

1,03 mg/l/96h

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EC50 - for Crustacea	1,16 mg/l/48h	
EC50 - for Algae / Aquatic Plants	1,29 mg/l/72h Alghe	
EC10 for Algae / Aquatic Plants	0,502 mg/l/72h Alghe	
1,3,4,6,7,8-Hexahydro-4,6,6,7,8,8-hexamethylcyclopenta (g) -2-benzopyran (HHCB)		
LC50 - for Fish	0,95 mg/l/96h	
EC50 - for Crustacea	0,194 mg/l/48h	
Chronic NOEC for Fish	0,068 mg/L (36 days)	
Chronic NOEC for Algae / Aquatic Plants	0,201 mg/L (72 h)	
3-p-cumenyl-2-methylpropionaldehyde		
LC50 - for Fish	> 1,42 mg/l/96h	
EC50 - for Crustacea	1,4 mg/l/48h	
Chronic NOEC for Crustacea	> 0,44 mg/l 21 days	
Chronic NOEC for Algae / Aquatic Plants	2,6 mg/l freshwater algae	
Linalool		
LC50 - for Fish	27,8 mg/l/96h	
EC50 - for Crustacea	59 mg/l/48h	
EC10 for Algae / Aquatic Plants	54,3 mg/l/4d	
Ethanone, 1- (1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphtalenyl) -		
LC50 - for Fish	1,3 mg/l/96h	
Chronic NOEC for Fish	> 0,16 mg/l 30 days	
Chronic NOEC for Crustacea	> 0,028 mg/l 21 days	
Chronic NOEC for Algae / Aquatic Plants	2,6 mg/l freshwater algae	
Linalyl acetate		
LC50 - for Fish	11 mg/l/96h	
EC50 - for Crustacea	59 mg/l/48h	
EC50 - for Algae / Aquatic Plants	68 mg/l/72h	
alpha-Isomethyl ionone		
LC50 - for Fish	> 6,8 mg/l/96h	
EC50 - for Algae / Aquatic Plants	> 20 mg/l/72h	
cis-3-Hexenyl salicylate		
Chronic NOEC for Fish	0,65 mg/L (96 h)	
Chronic NOEC for Algae / Aquatic Plants	0,15 mg/L (72 h)	
Oxacyclohexadecan-2-one		
LC50 - for Fish	0,797 mg/l/96h	
Chronic NOEC for Fish	0,027 mg/l 33 days	

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Chronic NOEC for Crustacea	0,068 mg/l 21 days	
Chronic NOEC for Algae / Aquatic Plants	0,42 mg/l freshwater algae	
2-Phenylmethylenooctanal		
LC50 - for Fish	1,7 mg/l/96h	
EC50 - for Crustacea	> 0,36 mg/l/48h	
Chronic NOEC for Fish	0,93 mg/l	
Chronic NOEC for Algae / Aquatic Plants	0,065 mg/l (72h)	
<b>12.2. Persistence and degradability</b>		
ETHANOL		
Solubility in water	1000 - 10000 mg/l	
Rapidly degradable		
Benzyl salicylate		
Solubility in water	8,8 mg/l @ 20°C	
Rapidly degradable		
1,3,4,6,7,8-Hexahydro-4,6,6,7,8,8-hexamethylcyclopenta (g) -2-benzopyran (HHCB)		
Solubility in water	1,65 mg/l @ 25°C	
NOT rapidly degradable		
3-p-cumenyl-2-methylpropionaldehyde		
Solubility in water	66 mg/l	
Rapidly degradable		
Linalool		
Solubility in water	1,56 g/l	
Rapidly degradable		
Ethanone, 1- (1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphtalenyl) -		
Solubility in water	2,68 mg/l	
Rapidly degradable		
Linalyl acetate		
Solubility in water	30 mg/l	
Rapidly degradable		
alpha-Isomethyl ionone		
Solubility in water	27,953 mg/l	
Entirely degradable		
cis-3-Hexenyl salicylate		
Solubility in water	5 mg/l @ 20°C	
Rapidly degradable		

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Oxacyclohexadecan-2-one		
Solubility in water	0,3 mg/l	
Rapidly degradable		
2-Phenylmethylenooctanal		
Solubility in water	1,62 mg/l	
Rapidly degradable		
<b>12.3. Bioaccumulative potential</b>		
ETHANOL		
Partition coefficient: n-octanol/water	-0,35	
Benzyl salicylate		
Partition coefficient: n-octanol/water	4 Log Kow	
1,3,4,6,7,8-Hexahydro-4,6,6,7,8,8-hexamethylcyclopenta (g) -2-benzopyran (HHCB)		
Partition coefficient: n-octanol/water	5,3 Log Kow @ 25°C	
BCF	1584 L/kg ww aquatic/sediment	
3-p-cumenyl-2-methylpropionaldehyde		
Partition coefficient: n-octanol/water	3,4 Log Kow	
BCF	102 L/Kg ww	
Linalool		
Partition coefficient: n-octanol/water	2,9 Log Kow @ 20°C	
Ethanone, 1- (1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphtalenyl) -		
Partition coefficient: n-octanol/water	5,65 Log Kow	
BCF	5361 L/kg ww	
Linalyl acetate		
Partition coefficient: n-octanol/water	3,9 Log Kow	
BCF	174 L/kg ww	
alpha-Isomethyl ionone		
Partition coefficient: n-octanol/water	4,288 Log Kow	
cis-3-Hexenyl salicylate		
Partition coefficient: n-octanol/water	4,8 Log Kow @ 25°C	
Oxacyclohexadecan-2-one		
Partition coefficient: n-octanol/water	5,79 Log Kow	
2-Phenylmethylenooctanal		
Partition coefficient: n-octanol/water	5,3 Log Kow	



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**12.4. Mobility in soil**

3-p-cumenyl-2-methylpropionaldehyde

Partition coefficient: soil/water

1122 Koc @ 20°C

Oxacyclohexadecan-2-one

Partition coefficient: soil/water

44500 Koc @ 20°C

**12.5. Results of PBT and vPvB assessment**On the basis of available data, the product does not contain any PBT or vPvB in percentage  $\geq$  than 0,1%.**12.6. Endocrine disrupting properties**

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation.

**12.7. Other adverse effects**

Information not available.

**SECTION 13. Disposal considerations****13.1. Waste treatment methods**

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

Waste transportation may be subject to ADR restrictions.

**CONTAMINATED PACKAGING**

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

**SECTION 14. Transport information****14.1. UN number or ID number**

ADR / RID, IMDG, IATA: 1266

**14.2. UN proper shipping name**

ADR / RID: PERFUMERY PRODUCTS

IMDG: PERFUMERY PRODUCTS

IATA: PERFUMERY PRODUCTS

**14.3. Transport hazard class(es)**

ADR / RID: Class: 3 Label: 3

IMDG: Class: 3 Label: 3

IATA: Class: 3 Label: 3

**14.4. Packing group**

ADR / RID, IMDG, IATA: II

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**14.5. Environmental hazards**

ADR / RID: NO  
 IMDG: NO  
 IATA: NO

**14.6. Special precautions for user**

ADR / RID:	HIN - Kemler: 33	Limited Quantities: 5 L	Tunnel restriction code: (D/E)
	Special provision: 163, 640D		
IMDG:	EMS: F-E, S-D	Limited Quantities: 5 L	
IATA:	Cargo:	Maximum quantity: 60 L	Packaging instructions: 364
	Pass.:	Maximum quantity: 5 L	Packaging instructions: 353
	Special provision:	A3, A72	

**14.7. Maritime transport in bulk according to IMO instruments**

Information not relevant.

**SECTION 15. Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

Seveso Category - Directive 2012/18/EU: P5c

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

Product

Point 3 - 40

Contained substance

Point 75

Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors

Not applicable.

Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage  $\geq$  than 0,1%.

Substances subject to authorisation (Annex XIV REACH)

None.

Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012:

None.

Substances subject to the Rotterdam Convention:

None.

Substances subject to the Stockholm Convention:

None.

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Healthcare controls

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

**15.2. Chemical safety assessment**

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

**SECTION 16. Other information**

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

<b>Flam. Liq. 2</b>	Flammable liquid, category 2
<b>Eye Irrit. 2</b>	Eye irritation, category 2
<b>Skin Irrit. 2</b>	Skin irritation, category 2
<b>Skin Sens. 1</b>	Skin sensitization, category 1
<b>Aquatic Acute 1</b>	Hazardous to the aquatic environment, acute toxicity, category 1
<b>Aquatic Chronic 1</b>	Hazardous to the aquatic environment, chronic toxicity, category 1
<b>Aquatic Chronic 3</b>	Hazardous to the aquatic environment, chronic toxicity, category 3
<b>H225</b>	Highly flammable liquid and vapour.
<b>H319</b>	Causes serious eye irritation.
<b>H315</b>	Causes skin irritation.
<b>H317</b>	May cause an allergic skin reaction.
<b>H400</b>	Very toxic to aquatic life.
<b>H410</b>	Very toxic to aquatic life with long lasting effects.
<b>H412</b>	Harmful to aquatic life with long lasting effects.

**LEGEND:**

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE: Identifier in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: Regulation (EC) 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA: Time-weighted average exposure limit
- TWA STEL: Short-term exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation

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- WGK: Water hazard classes (German).

#### GENERAL BIBLIOGRAPHY

1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
3. Regulation (EU) 2020/878 (II Annex of REACH Regulation)
4. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
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8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
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16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)
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- The Merck Index. - 10th Edition
- Handling Chemical Safety
- INRS - Fiche Toxicologique (toxicological sheet)
- Patty - Industrial Hygiene and Toxicology
- N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

#### Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

#### CALCULATION METHODS FOR CLASSIFICATION

Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.

Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11.

Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.

#### Changes to previous review:

The following sections were modified:

01 / 02 / 03 / 08 / 09 / 11 / 12 / 14 / 15 / 16.