FR AQQUA

Revision nr. 4 Dated 18/04/2022 Printed on 18/04/2022 Page n. 1/21 Replaced revision:3 (Dated: 07/03/2021)

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: CM1006 FR AQQUA Product name

Chemical name and synonym Essence in hydro-alcoholic solution

3E00-G0GU-G00J-Y5TC UFI:

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	
Consumer use		√	<u> </u>	
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** Via dell'Aprica, 12 Full address 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.

CULTIMILANO_(Fir.186371.2022/v.11)

FR AQQUA

Revision nr. 4 Dated 18/04/2022 Printed on 18/04/2022 Page n. 2/21 Replaced revision:3 (Dated: 07/03/2021)

Eye irritation, category 2

Skin sensitization, category 1B

Hazardous to the aquatic environment, chronic toxicity, category 2

Has Causes serious eye irritation.

May cause an allergic skin reaction.

Toxic to aquatic life with long lasting effects.

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:

H225 Highly flammable liquid and vapour.
 H319 Causes serious eye irritation.
 H317 May cause an allergic skin reaction.
 H411 Toxic to aquatic life with long lasting effects.

Precautionary statements:

P102 Keep out of reach of children.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P280 Wear protective gloves/ protective clothing / eye protection / face protection.

P370+P378 In case of fire: use chemical extinguisher to extinguish.
P273 Avoid release to the environment.

P391 Avoid release to the er

Contains: Acetyl cedrene

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

Methyl-3,4-methylene-dioxydrocinnamaldehyde

Coumarin Piperonal

Bicyclo(3.1.1)Heptane, 6,6-Dimethyl-2-Methylene-,(1s)-

Linalool

(R)-P-MENTA-1,8-DIENE

Linalyl acetate

PACK2 The packing must have tactive 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 ≥ than 0,1%. The product does not contain substances with endocrine disrupting properties in concentration >= 0.1%.

SECTION 3. Composition/information on ingredients

3.2. Mixtures

Contains:

FR AQQUA

Revision nr. 4
Dated 18/04/2022
Printed on 18/04/2022
Page n. 3/21
Replaced revision:3 (Dated: 07/03/2021)

Identification	x = Conc. %	Classification (EC) 1272/2008 (CLP)
ETHANOL		
CAS 64-17-5	$86 \le x < 90$	Flam. Liq. 2 H225, Eye Irrit. 2 H319
EC 200-578-6		
INDEX 603-002-00-5		
REACH Reg. 01-2119457610-43-0000		
Ethanone, 1- (1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-		
Tetramethyl-2-Naphtalenyl) -	0.4	Olds July 0 HOAF, Olds Osses, AD HOAF, Assesting
CAS 54464-57-2	2 ≤ x < 2,5	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		
Acetyl cedrene		
CAS 32388-55-9	1 ≤ x < 1,5	Skin Sens. 1B H317, Aquatic Acute 1 H400 M=1,
EC 251-020-3		Aquatic Chronic 1 H410 M=1
INDEX -		
REACH Reg. 01-2119969651-28-0000		
, v		
6-acetyl-1,1,2,4,4,7-hexamethyl tetralin	0.0 < 4 < 0.7	Aputa Tau A 11200 Aquatia Aquata A 11400 M. A
CAS 1506-02-1	$0.6 \le x < 0.7$	Acute Tox. 4 H302, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1
EC 216-133-4		LD50 Oral: 920 mg/kg
INDEX -		
REACH Reg. 01-2119539433-40-0000		
(R)-P-MENTHA-1,8-DIENE		
CAS 5989-27-5	$0,45 \le x < 0,5$	Flam. Liq. 3 H226, Asp. Tox. 1 H304, Skin Irrit. 2
		H315, Skin Sens. 1B H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 3 H412
EC 227-813-5		W-1, / (qualio official)
INDEX 601-096-00-2		
REACH Reg. 01-2119529223-47		
Linalyl acetate		
CAS 115-95-7	$0,45 \le x < 0,5$	Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1B
EC 204 116 4		H317
EC 204-116-4		
INDEX -		
REACH Reg. 01-2119983608-21-0000		
1,3,4,6,7,8-Hexahydro-4,6,6,7,8,8- hexamethylcyclopenta (g) -2-benzopyran (HHCB)		
CAS 1222-05-5	$0,45 \le x < 0,5$	Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410
EC 214-946-9		M=1
INDEX -		
REACH Reg. 01-2119488227-29-0000		
Linalool		
CAS 78-70-6	0,25 ≤ x < 0,3	Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1B
Ond 10-10-0	0,20 = A > 0,0	H317
EC 201-134-4		
INDEX 603-235-00-2		
REACH Reg. 01-2119474016-42-0000		

FR AQQUA

Revision nr. 4
Dated 18/04/2022
Printed on 18/04/2022
Page n. 4/21
Replaced revision:3 (Dated: 07/03/2021)

Bicyclo (3.1.1) Heptane, 6,6-Dimethyl-2-Methylene -,

(1s) -

CAS 18172-67-3 0,15 ≤ x < 0,2 Flam. Liq. 3 H226, Asp. Tox. 1 H304, Skin Irrit. 2

H315, Skin Sens. 1B H317, Aquatic Acute 1 H400

M=1, Aquatic Chronic 1 H410 M=1

EC 242-060-2

INDEX -

Coumarin

CAS 91-64-5 0,15 ≤ x < 0,2 Acute Tox. 4 H302, Skin Sens. 1B H317

EC 202-086-7 STA Oral: 500 mg/kg

INDEX -

REACH Reg. 01-2119949300-45-0000

Methyl-3,4-methylene-dioxydrocinnamaldehyde

CAS 1205-17-0 0,15 ≤ x < 0,2 Repr. 2 H361, Skin Sens. 1B H317, Aquatic Chronic

2 H411

EC 214-881-6

INDEX -

REACH Reg. 01-2120740119-58

Piperonal

CAS 120-57-0 0,15 ≤ x < 0,2 Skin Sens. 1B H317

EC 204-409-7

INDEX -

REACH Reg. 01-2119983608-21-0000

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

FR AQQUA

Revision nr. 4
Dated 18/04/2022
Printed on 18/04/2022
Page n. 5/21
Replaced revision:3 (Dated: 07/03/2021)

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.

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
GBR United Kingdom
TLV-ACGIH

Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS EH40/2005 Workplace exposure limits (Fourth Edition 2020)

ACGIH 2021

FR AQQUA

Revision nr. 4
Dated 18/04/2022
Printed on 18/04/2022
Page n. 6/21
Replaced revision:3 (Dated: 07/03/2021)

Туре	Country	TWA/8h		STEL/15min		Remarks /		
		mg/m3	ppm	mg/m3	ppm	Observation	ons	
/LEP	FRA	1900	1000	9500	5000			
WEL	GBR	1920	1000					
TLV-ACGIH				1884	1000			
Predicted no-effect concentratio	n - PNEC							
Normal value in fresh water				0,96	mg/	/I		
Normal value in marine water				0,79	mg/	/I		
Normal value for fresh water sec	diment			3,6	mg/	/kg/d		
Normal value for marine water s	ediment			2,9	mg/	/kg/d		
Normal value for water, intermitt	tent release			2,75	mg/	/I		
Normal value of STP microorgan	nisms			580	mg/	/I		
Health - Derived no-effect		DMEL						
	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic	Acute local	Acute	Chronic local	Chronic
Inhalation				systemic 950 mg/m3		systemic 1884 mg/m3		systemic
Skin								343 mg/kg/c
Predicted no-effect concentration	,8-Octahydro-2 n - PNEC	,3,8,8-Tetramethy	/I-2-Naphtalen	yl) -	mg/	/1		
Predicted no-effect concentration Normal value in fresh water	, 8-Octahydro-2 n - PNEC	,3,8,8-Tetramethy	yl-2-Naphtalen		mg/ ng/l			
Predicted no-effect concentration Normal value in fresh water Normal value in marine water	n - PNEC	,3,8,8-Tetramethy	yl-2-Naphtalen	0,0044	ng/l	L		
Predicted no-effect concentration Normal value in fresh water Normal value in marine water Normal value for fresh water sec	n - PNEC	,3,8,8-Tetramethy	yl-2-Naphtalen	0,0044	ng/l	L /kg/d		
Predicted no-effect concentration Normal value in fresh water Normal value in marine water Normal value for fresh water secondary	diment	,3,8,8-Tetramethy	/l-2-Naphtalen	0,0044 440 3,73	ng/l mg/ mg/	L /kg/d /kg/d		
Predicted no-effect concentration Normal value in fresh water Normal value in marine water Normal value for fresh water secondarial value for marine water secondarial value for marine water secondarial value of STP microorgan	diment sediment	,3,8,8-Tetramethy	yl-2-Naphtalen	0,0044 440 3,73 0,75	ng/l mg/ mg/ mg/	L /kg/d /kg/d		
Predicted no-effect concentration Normal value in fresh water Normal value in marine water Normal value for fresh water seconormal value for marine water seconormal value for marine water seconormal value of STP microorgan Normal value for the terrestrial of	diment sediment nisms		yl-2-Naphtalen	0,0044 440 3,73 0,75	ng/l mg/ mg/ mg/	L /kg/d /kg/d		
Predicted no-effect concentration Normal value in fresh water Normal value in marine water Normal value for fresh water secons Normal value for marine water secons Normal value of STP microorgal Normal value for the terrestrial of	diment sediment nisms compartment level - DNEL / I		/l-2-Naphtalen	0,0044 440 3,73 0,75	ng/l mg/ mg/ mg/	L /kg/d /kg/d		
Predicted no-effect concentration Normal value in fresh water Normal value in marine water Normal value for fresh water seconomial value for marine water seconomial value of STP microorgal Normal value for the terrestrial of the terrestrial	diment sediment nisms compartment level - DNEL / I		yl-2-Naphtalen Chronic local	0,0044 440 3,73 0,75 10 2,7	ng/l mg/ mg/ mg/	L /kg/d /kg/d /l /kg/d	Chronic local	Chronic
Predicted no-effect concentration Normal value in fresh water Normal value in marine water Normal value for fresh water set Normal value for marine water set Normal value for marine water set Normal value for the terrestrial of Health - Derived no-effect Route of exposure	diment sediment nisms compartment level - DNEL / I Effects on consumers	DMEL		0,0044 440 3,73 0,75 10 2,7	ng/l mg/ mg/ mg/	L /kg/d /kg/d /l	Chronic local	Chronic systemic 30 mg/m3
Predicted no-effect concentration Normal value in fresh water Normal value in marine water Normal value for fresh water secons and value for marine water secons and value of STP microorgal Normal value for the terrestrial of the terrestrial	diment sediment nisms compartment level - DNEL / I Effects on consumers	DMEL		0,0044 440 3,73 0,75 10 2,7 Chronic systemic	ng/l mg/ mg/ mg/	L /kg/d /kg/d /l /kg/d	Chronic local	systemic
Predicted no-effect concentration Normal value in fresh water Normal value in marine water Normal value for fresh water secons and value for marine water secons and value of STP microorgal Normal value for the terrestrial of the terrestrial	diment sediment nisms compartment level - DNEL / I Effects on consumers	DMEL		0,0044 440 3,73 0,75 10 2,7 Chronic systemic 9 mg/m3	ng/l mg/ mg/ mg/	L /kg/d /kg/d /l /kg/d	Chronic local	systemic 30 mg/m3
Predicted no-effect concentration Normal value in fresh water Normal value in marine water Normal value for fresh water seconomial value for marine water seconomial value of STP microorgal Normal value of STP microorgal Normal value for the terrestrial of Health - Derived no-effect Route of exposure Inhalation Skin	diment sediment nisms compartment level - DNEL / I Effects on consumers	DMEL		0,0044 440 3,73 0,75 10 2,7 Chronic systemic 9 mg/m3 17,2 mg/kg	ng/l mg/ mg/ mg/	L /kg/d /kg/d /l /kg/d	Chronic local	systemic 30 mg/m3 28,7 mg/kg
Predicted no-effect concentration Normal value in fresh water Normal value in marine water Normal value for fresh water set Normal value for marine water set Normal value for marine water set Normal value for the terrestrial of Health - Derived no-effect Route of exposure Inhalation Skin Acetyl cedrene	diment sediment nisms compartment level - DNEL / I Effects on consumers Acute local	DMEL		0,0044 440 3,73 0,75 10 2,7 Chronic systemic 9 mg/m3 17,2 mg/kg	ng/l mg/ mg/ mg/	L /kg/d /kg/d /l /kg/d	Chronic local	systemic 30 mg/m3 28,7 mg/kg
Predicted no-effect concentration Normal value in fresh water Normal value in marine water Normal value for fresh water sectors and value for marine water sectors and value of STP microorgal value for the terrestrial of th	diment sediment nisms compartment level - DNEL / I Effects on consumers Acute local	DMEL		0,0044 440 3,73 0,75 10 2,7 Chronic systemic 9 mg/m3 17,2 mg/kg	ng/l mg/ mg/ mg/	L /kg/d /kg/d /l /kg/d Acute systemic	Chronic local	systemic 30 mg/m3 28,7 mg/kg
Predicted no-effect concentration Normal value in fresh water Normal value in marine water Normal value for fresh water set Normal value for marine water set Normal value for marine water set Normal value for the terrestrial of Health - Derived no-effect Route of exposure Inhalation Skin Acetyl cedrene Predicted no-effect concentration Normal value in fresh water	diment sediment nisms compartment level - DNEL / I Effects on consumers Acute local	DMEL		0,0044 440 3,73 0,75 10 2,7 Chronic systemic 9 mg/m3 17,2 mg/kg bw/d	ng/l mg/ mg/ mg/ mg/ mg/ mg/ construction	L //kg/d //kg/d //kg/d Acute systemic	Chronic local	systemic 30 mg/m3 28,7 mg/kg
Predicted no-effect concentration Normal value in fresh water Normal value in marine water Normal value for fresh water secondary second	diment sediment nisms compartment level - DNEL / I Effects on consumers Acute local	DMEL		0,0044 440 3,73 0,75 10 2,7 Chronic systemic 9 mg/m3 17,2 mg/kg bw/d	ng/l mg/ mg/ mg/ mg/ mg/ Effects on workers Acute local	L //kg/d //kg/d //kg/d Acute systemic	Chronic local	systemic 30 mg/m3 28,7 mg/kg
Predicted no-effect concentration Normal value in fresh water Normal value in marine water Normal value for fresh water set Normal value for marine water set Normal value for marine water set Normal value of STP microorgal Normal value for the terrestrial of Health - Derived no-effect Route of exposure Inhalation Skin Acetyl cedrene Predicted no-effect concentration Normal value in fresh water Normal value in marine water Normal value for fresh water set	diment diment diment dediment nisms compartment level - DNEL / I Effects on consumers Acute local	DMEL		0,0044 440 3,73 0,75 10 2,7 Chronic systemic 9 mg/m3 17,2 mg/kg bw/d 0,00174 174	ng/l mg/ mg/ mg/ mg/ mg/ mg/ Effects on workers Acute local mg/ mg/ ng/l	L /kg/d /kg/d /l /kg/d Acute systemic	Chronic local	systemic 30 mg/m3 28,7 mg/kg
Predicted no-effect concentration Normal value in fresh water Normal value in marine water Normal value for fresh water set Normal value for marine water set Normal value for marine water set Normal value of STP microorgal Normal value for the terrestrial of Health - Derived no-effect Route of exposure Inhalation Skin Acetyl cedrene Predicted no-effect concentration Normal value in fresh water Normal value in marine water Normal value for fresh water set Normal value for marine water set	diment	DMEL		0,0044 440 3,73 0,75 10 2,7 Chronic systemic 9 mg/m3 17,2 mg/kg bw/d 0,00174 174 24,4	ng/l mg/ mg/ mg/ mg/ mg/ mg/ Effects on workers Acute local mg/ mg/ ng/l	L //kg/d //kg/d //kg/d Acute systemic // L //kg/d	Chronic local	systemic 30 mg/m3 28,7 mg/kg
Predicted no-effect concentration Normal value in fresh water Normal value in marine water Normal value for fresh water second value for marine water second value for marine water second value for the terrestrial of the te	diment diment dediment nisms compartment level - DNEL / I Effects on consumers Acute local on - PNEC diment dediment nisms	DMEL		0,0044 440 3,73 0,75 10 2,7 Chronic systemic 9 mg/m3 17,2 mg/kg bw/d 0,00174 174 24,4 2,44	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l	L //kg/d //kg/d //kg/d Acute systemic // L //kg/d	Chronic local	systemic 30 mg/m3 28,7 mg/kg
Ethanone, 1- (1,2,3,4,5,6,7) Predicted no-effect concentration Normal value in fresh water Normal value in marine water Normal value for fresh water secondary seconda	diment diment diment dediment nisms dompartment level - DNEL / I Effects on consumers Acute local diment dediment	DMEL Acute systemic		0,0044 440 3,73 0,75 10 2,7 Chronic systemic 9 mg/m3 17,2 mg/kg bw/d 0,00174 174 24,4 2,44 10	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l	/kg/d /kg/d //kg/d // /kg/d Acute systemic // L //kg/d	Chronic local	systemic 30 mg/m3 28,7 mg/kg

FR AQQUA

Revision nr. 4
Dated 18/04/2022
Printed on 18/04/2022
Page n. 7/21
Replaced revision:3 (Dated: 07/03/2021)

Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				0,167 mg/kg bw/d				
Inhalation				0,290 mg/m3				1,17 mg/m3
Skin				0,167 mg/kg bw/d				0,333 mg/kg bw/d
6-acetyl-1,1,2,4,4,7-hexa Predicted no-effect concentra	methyl tetralin							
Normal value in fresh water				0,0022	mg	ı/I		
Normal value in marine water				220	ng/			
Normal value for fresh water s	sediment			1,72		/kg/d		
Normal value for marine wate	r sediment			0,345		/kg/d		
Normal value of STP microorg	ganisms			2,2	mg			
Normal value for the terrestria				0,0099		/kg/d		
Health - Derived no-effec	ct level - DNEL / I	OMEL		5,5555	Effects on	,g, u		
Route of exposure	consumers Acute local	Acute systemic	Chronic local	Chronic	workers Acute local	Acute	Chronic local	Chronic
Oral		· ·		systemic 0,0125 mg/kg bw/d		systemic		systemic
Inhalation				0,0435				0,175 mg/m
Skin				mg/m3 0,305 mg/kg				0,610 mg/kg
1,3,4,6,7,8-Hexahydro-4, Predicted no-effect concentra		thylcyclopenta (g	ı) -2-benzopyra			. 0		
1,3,4,6,7,8-Hexahydro-4, Predicted no-effect concentra		thylcyclopenta (c	ı) -2-benzopyra	an (HHCB)	mo	v/I		
1,3,4,6,7,8-Hexahydro-4, Predicted no-effect concentra Normal value in fresh water	tion - PNEC	thylcyclopenta (<u>c</u>	ı) -2-benzopyra		mg ng/			
1,3,4,6,7,8-Hexahydro-4, Predicted no-effect concentra Normal value in fresh water Normal value in marine water	tion - PNEC	thylcyclopenta (<u>c</u>	y) -2-benzopyra	0,0068 440	ng/	′L		
1,3,4,6,7,8-Hexahydro-4, Predicted no-effect concentra Normal value in fresh water Normal value in marine water Normal value for fresh water s	sediment	thylcyclopenta (g	ı) -2-benzopyra	0,0068 440 2	ng/	/L ı/kg/d		
1,3,4,6,7,8-Hexahydro-4, Predicted no-effect concentra Normal value in fresh water Normal value in marine water Normal value for fresh water s Normal value for marine wate	sediment	thylcyclopenta (c	y) -2-benzopyra	0,0068 440	ng/ mg	/L n/kg/d n/kg/d		
1,3,4,6,7,8-Hexahydro-4, Predicted no-effect concentra Normal value in fresh water Normal value in marine water Normal value for fresh water s Normal value for marine wate	sediment or sediment ganisms	thylcyclopenta (c	y) -2-benzopyra	0,0068 440 2 0,394	ng/ mg mg	/L //kg/d //kg/d //l		
1,3,4,6,7,8-Hexahydro-4, Predicted no-effect concentra Normal value in fresh water Normal value in marine water Normal value for fresh water s Normal value for marine wate Normal value of STP microorg Normal value for the terrestria Health - Derived no-effect	sediment or sediment ganisms al compartment ct level - DNEL / L Effects on		y) -2-benzopyra	0,0068 440 2 0,394	ng/ mg mg mg	/L n/kg/d n/kg/d		
1,3,4,6,7,8-Hexahydro-4, Predicted no-effect concentra Normal value in fresh water Normal value in marine water Normal value for fresh water s Normal value for marine wate Normal value of STP microorg Normal value for the terrestria Health - Derived no-effect	sediment or sediment ganisms al compartment ct level - DNEL / I	DMEL		0,0068 440 2 0,394	ng/ mg mg mg	/L //kg/d //kg/d //l	Chronic local	Chronic
1,3,4,6,7,8-Hexahydro-4, Predicted no-effect concentra Normal value in fresh water Normal value in marine water Normal value for fresh water s Normal value for marine wate Normal value of STP microorg Normal value for the terrestria Health - Derived no-effect Route of exposure	sediment or sediment ganisms al compartment ct level - DNEL / I Effects on consumers			0,0068 440 2 0,394 1 1,5 Chronic systemic 2,3 mg/kg	ng/mg mg mg	/L //kg/d //kg/d //I //kg/d	Chronic local	Chronic systemic
1,3,4,6,7,8-Hexahydro-4, Predicted no-effect concentra Normal value in fresh water Normal value in marine water Normal value for fresh water s Normal value for marine wate Normal value of STP microorg Normal value for the terrestria Health - Derived no-effect Route of exposure Oral	sediment or sediment ganisms al compartment ct level - DNEL / I Effects on consumers	DMEL		0,0068 440 2 0,394 1 1,5 Chronic systemic	ng/mg mg mg	/L //kg/d //kg/d //kg/d //l //kg/d Acute	Chronic local	systemic
1,3,4,6,7,8-Hexahydro-4, Predicted no-effect concentra Normal value in fresh water Normal value in marine water Normal value for fresh water s Normal value for marine wate Normal value of STP microorg Normal value for the terrestria	sediment or sediment ganisms al compartment ct level - DNEL / I Effects on consumers	DMEL		0,0068 440 2 0,394 1 1,5 Chronic systemic 2,3 mg/kg bw/d	ng/mg mg mg	/L //kg/d //kg/d //kg/d //l //kg/d Acute	Chronic local	
1,3,4,6,7,8-Hexahydro-4, Predicted no-effect concentra Normal value in fresh water Normal value in marine water Normal value for fresh water s Normal value for marine wate Normal value of STP microorg Normal value for the terrestria Health - Derived no-effect Route of exposure Oral Inhalation Skin Linalyl acetate	sediment or sediment ganisms al compartment ct level - DNEL / I Effects on consumers Acute local	DMEL		0,0068 440 2 0,394 1 1,5 Chronic systemic 2,3 mg/kg bw/d 4 mg/m3 22 mg/kg	ng/mg mg mg	/L //kg/d //kg/d //kg/d //l //kg/d Acute	Chronic local	13,5 mg/m3 36,7 mg/kg
1,3,4,6,7,8-Hexahydro-4, Predicted no-effect concentra Normal value in fresh water Normal value in marine water Normal value for fresh water s Normal value for marine wate Normal value of STP microorg Normal value for the terrestria Health - Derived no-effect Route of exposure Oral Inhalation Skin Linalyl acetate Predicted no-effect concentra	sediment or sediment ganisms al compartment ct level - DNEL / I Effects on consumers Acute local	DMEL		0,0068 440 2 0,394 1 1,5 Chronic systemic 2,3 mg/kg bw/d 4 mg/m3 22 mg/kg	ng/mg mg mg	/L //kg/d //kg/d //kg/d //l //kg/d Acute systemic	Chronic local	13,5 mg/m3 36,7 mg/kg
1,3,4,6,7,8-Hexahydro-4, Predicted no-effect concentra Normal value in fresh water Normal value in marine water Normal value for fresh water s Normal value for marine wate Normal value of STP microorg Normal value for the terrestria Health - Derived no-effect Route of exposure Oral Inhalation Skin Linalyl acetate Predicted no-effect concentra Normal value in fresh water	sediment or sediment ganisms al compartment ct level - DNEL / I Effects on consumers Acute local	DMEL		0,0068 440 2 0,394 1 1,5 Chronic systemic 2,3 mg/kg bw/d 4 mg/m3 22 mg/kg bw/d	ng/mg mg mg mg mg effects on workers Acute local	/L //kg/d //kg/d //kg/d //kg/d Acute systemic	Chronic local	13,5 mg/m3 36,7 mg/kg
1,3,4,6,7,8-Hexahydro-4, Predicted no-effect concentra Normal value in fresh water Normal value in marine water Normal value for fresh water s Normal value for marine wate Normal value of STP microorg Normal value for the terrestria Health - Derived no-effect Route of exposure Oral Inhalation	sediment or sediment ganisms al compartment ct level - DNEL / I Effects on consumers Acute local	DMEL		0,0068 440 2 0,394 1 1,5 Chronic systemic 2,3 mg/kg bw/d 4 mg/m3 22 mg/kg bw/d 0,011	ng/mg mg m	/L //kg/d //kg/d //kg/d //kg/d Acute systemic	Chronic local	13,5 mg/m3 36,7 mg/kg
1,3,4,6,7,8-Hexahydro-4, Predicted no-effect concentra Normal value in fresh water Normal value in marine water Normal value for fresh water s Normal value for marine wate Normal value of STP microorg Normal value for the terrestria Health - Derived no-effect Route of exposure Oral Inhalation Skin Linalyl acetate Predicted no-effect concentra Normal value in fresh water s Normal value in marine water Normal value for fresh water s	sediment or sediment ganisms al compartment ct level - DNEL / I Effects on consumers Acute local	DMEL		0,0068 440 2 0,394 1 1,5 Chronic systemic 2,3 mg/kg bw/d 4 mg/m3 22 mg/kg bw/d 0,011 0,0011	ng, mg mg mg mg mg effects on workers Acute local	/L //kg/d //kg/d //kg/d //l //kg/d Acute systemic	Chronic local	13,5 mg/m3 36,7 mg/kg
1,3,4,6,7,8-Hexahydro-4, Predicted no-effect concentra Normal value in fresh water Normal value in marine water Normal value for fresh water s Normal value for marine wate Normal value of STP microorg Normal value for the terrestria Health - Derived no-effect Route of exposure Oral Inhalation Skin Linalyl acetate Predicted no-effect concentra Normal value in fresh water	sediment or sediment ganisms al compartment ct level - DNEL / I Effects on consumers Acute local tion - PNEC	DMEL		0,0068 440 2 0,394 1 1,5 Chronic systemic 2,3 mg/kg bw/d 4 mg/m3 22 mg/kg bw/d 0,011 0,0011 0,609	ng, mg mg mg mg mg effects on workers Acute local	/L //kg/d //kg/d //kg/d Acute systemic	Chronic local	13,5 mg/m3 36,7 mg/kg

FR AQQUA

Revision nr. 4
Dated 18/04/2022
Printed on 18/04/2022
Page n. 8/21
Replaced revision:3 (Dated: 07/03/2021)

	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute	Chronic local	Chronic
Oral				0,200 mg/kg		systemic		systemic
nhalation				bw/d 0,680 mg/m3				2,75 mg/m3
Skin				1,25 mg/kg bw/d				2,5 mg/kg bw/d
Linalool								
Predicted no-effect concentrate	tion - PNEC							
Normal value in fresh water				0,2	mg	/I		
lormal value in marine water				0,02	mg	/I		
lormal value for fresh water s	ediment			2,22	mg	/kg/d		
lormal value for marine water	sediment			0,222	mg	/kg/d		
Normal value of STP microorg	anisms			10	mg	ı/I		
lormal value for the terrestria	l compartment			0,327	mg	/kg/d		
lealth - Derived no-effec	et level - DNEL / D Effects on consumers	DMEL			Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic	Acute local	Acute	Chronic local	Chronic
Oral				systemic 2,49 mg/kg		systemic		systemic
nhalation				bw/d 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
Normal value in fresh water				0,0025	mg	ı/I		
Normal value in marine water				250	ng			
Normal value for fresh water s	ediment			0,01195	mg	ı/kg/d		
Normal value for marine water	sediment			0,0012		/kg/d		
Normal value for water, interm	nittent release			0,025	mg			
Normal value of STP microorg	janisms			10	mg			
Normal value for the terrestria				840		′Kg/d		
Normal value for the atmosph				NPI				
Health - Derived no-effec		MEL						
	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic	Acute local	Acute	Chronic local	Chronic
Oral				systemic 0,375 mg/kg		systemic		systemic
nhalation				bw/d 1,3 mg/m3				5,29 mg/m3
Skin				0,375 mg/kg				0,750 mg/kg
				bw/d				bw/d
Methyl-3,4-methylene-dio		ehyde						
Normal value in fresh water				0,0053	mg	1/1		
Normal value in marine water				530	ng			
on moral value in manne water				550	ng/	L		

FR AQQUA

Revision nr. 4 Dated 18/04/2022 Printed on 18/04/2022 Page n. 9/21 Replaced revision:3 (Dated: 07/03/2021)

Normal value for fresh water s	sediment			0,0569	mg	/kg/d		
Normal value for marine wate	r sediment			0,00569	mg	/kg/d		
Normal value for water, interm	nittent release			0,053	mg	/I		
Normal value of STP microorg	ganisms			10	mg	/I		
Normal value for the terrestrial compartment			0,00826	mg	/kg/d			
Health - Derived no-effec	ct level - DNEL / D Effects on consumers	DMEL			Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				0,170 mg/kg bw/d				
Inhalation				0,290 mg/m3				1,2 mg/m3
Skin				0,083 mg/kg bw/d				0,170 mg/kg bw/d
Coumarin								
Predicted no-effect concentra	tion - PNEC							
Normal value in fresh water				0,019	mg	/I		
Normal value in marine water				0,0019	mg	/I		
Normal value for fresh water s	sediment			0,15	mg	/kg/d		
Normal value for marine wate	r sediment			0,015	mg	/kg/d		
Normal value of STP microorg	ganisms			6,4	mg	/I		
Normal value for the terrestria	al compartment			0,018	mg	/kg/d		
Haalth Danissalaa "								
Health - Derived no-effect	ct level - DNEL / D Effects on consumers	DMEL			Effects on workers			
	Effects on	Acute systemic	Chronic local	Chronic systemic		Acute systemic	Chronic local	Chronic systemic
	Effects on consumers		Chronic local		workers		Chronic local	
Route of exposure	Effects on consumers		Chronic local	systemic	workers		Chronic local	systemic
Route of exposure Inhalation Skin Bicyclo (3.1.1) Heptane,	Effects on consumers Acute local 6,6-Dimethyl-2-M	Acute systemic		systemic 1,69 mg/m3 0,390 mg/kg	workers		Chronic local	systemic 6,78 mg/m3 0,790 mg/kg
Route of exposure Inhalation Skin Bicyclo (3.1.1) Heptane,	Effects on consumers Acute local 6,6-Dimethyl-2-M	Acute systemic		systemic 1,69 mg/m3 0,390 mg/kg	workers		Chronic local	systemic 6,78 mg/m3 0,790 mg/kg
Route of exposure Inhalation Skin Bicyclo (3.1.1) Heptane,	Effects on consumers Acute local 6,6-Dimethyl-2-M	Acute systemic		systemic 1,69 mg/m3 0,390 mg/kg	workers	systemic	Chronic local	systemic 6,78 mg/m3 0,790 mg/kg
Route of exposure Inhalation Skin Bicyclo (3.1.1) Heptane, Predicted no-effect concentra	Effects on consumers Acute local 6,6-Dimethyl-2-M tion - PNEC	Acute systemic		systemic 1,69 mg/m3 0,390 mg/kg bw/d	workers Acute local	systemic //	Chronic local	systemic 6,78 mg/m3 0,790 mg/kg
Route of exposure Inhalation Skin Bicyclo (3.1.1) Heptane, Predicted no-effect concentra Normal value in fresh water	Effects on consumers Acute local 6,6-Dimethyl-2-M tion - PNEC	Acute systemic		systemic 1,69 mg/m3 0,390 mg/kg bw/d 0,001	workers Acute local mg	systemic //	Chronic local	systemic 6,78 mg/m3 0,790 mg/kg
Route of exposure Inhalation Skin Bicyclo (3.1.1) Heptane, Predicted no-effect concentra Normal value in fresh water Normal value in marine water	Effects on consumers Acute local 6,6-Dimethyl-2-M tion - PNEC	Acute systemic		systemic 1,69 mg/m3 0,390 mg/kg bw/d 0,001 0,000001	mg mg	systemic //	Chronic local	systemic 6,78 mg/m3 0,790 mg/kg
Route of exposure Inhalation Skin Bicyclo (3.1.1) Heptane, Predicted no-effect concentra Normal value in fresh water Normal value in marine water Normal value for fresh water s	Effects on consumers Acute local 6,6-Dimethyl-2-M tion - PNEC sediment r sediment	Acute systemic		9,390 mg/kg bw/d 0,001 0,000001 0,337	mg mg	systemic // // // //kg/d //kg/d	Chronic local	systemic 6,78 mg/m3 0,790 mg/kg
Route of exposure Inhalation Skin Bicyclo (3.1.1) Heptane, Predicted no-effect concentra Normal value in fresh water Normal value in marine water Normal value for fresh water s Normal value for marine wate	Effects on consumers Acute local 6,6-Dimethyl-2-M tion - PNEC sediment r sediment ganisms	Acute systemic		9,0001 0,000001 0,0037	mg mg mg mg	systemic // // // //kg/d //kg/d	Chronic local	systemic 6,78 mg/m3 0,790 mg/kg
Route of exposure Inhalation Skin Bicyclo (3.1.1) Heptane, Predicted no-effect concentra Normal value in fresh water Normal value for fresh waters Normal value for marine wate Normal value for marine water	Effects on consumers Acute local 6,6-Dimethyl-2-M tion - PNEC sediment r sediment ganisms al compartment Ct level - DNEL / E Effects on	Acute systemic ethylene -, (1s) -		9,390 mg/kg bw/d 0,390 mg/kg bw/d 0,001 0,000001 0,337 0,0337 3,26	mg mg mg mg figer	// // //kg/d //kg/d	Chronic local	systemic 6,78 mg/m3 0,790 mg/kg
Route of exposure Inhalation Skin Bicyclo (3.1.1) Heptane, Predicted no-effect concentra Normal value in fresh water Normal value for fresh water solven a value for marine water Normal value for marine water Normal value of STP microorg Normal value for the terrestria Health - Derived no-effect	Effects on consumers Acute local 6,6-Dimethyl-2-M tion - PNEC sediment r sediment ganisms al compartment ct level - DNEL / E	Acute systemic ethylene -, (1s) -		0,390 mg/kg bw/d 0,001 0,00001 0,0337 0,0337 3,26 0,0671 Chronic	mg mg mg mg mg mg	/I /I //kg/d /kg/d /kg/d Acute	Chronic local	systemic 6,78 mg/m3 0,790 mg/kg bw/d
Route of exposure Inhalation Skin Bicyclo (3.1.1) Heptane, Predicted no-effect concentra Normal value in fresh water Normal value in marine water Normal value for fresh water s Normal value for marine wate Normal value of STP microorg Normal value for the terrestria	Effects on consumers Acute local 6,6-Dimethyl-2-M tion - PNEC sediment r sediment ganisms al compartment ct level - DNEL / E Effects on consumers	Acute systemic ethylene -, (1s) -		0,390 mg/kg bw/d 0,0001 0,000001 0,0337 0,0337 3,26 0,0671	mg	// // //kg/d //kg/d		systemic 6,78 mg/m3 0,790 mg/kg bw/d

(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.

FR AQQUA

Revision nr. 4
Dated 18/04/2022
Printed on 18/04/2022
Page n. 10/21
Replaced revision:3 (Dated: 07/03/2021)

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 II 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 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	straw yellow	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 Flammability Lower explosive limit	80 °C flammable liquid 3,5 % (v/v)	Concentration: 100 % Concentration: 100 %

FR AQQUA

Revision nr. 4 Dated 18/04/2022 Printed on 18/04/2022 Page n. 11/21 Replaced revision:3 (Dated: 07/03/2021)

Upper explosive limit 15 % (v/v)

Flash point < 23 °C Concentration: 100 % Auto-ignition temperature 430 °C Concentration: 100 % 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 - 0,84 g/cm³ 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) 87,48 % - 743,58 g/litre Concentration: 100 % VOC (volatile carbon) 388,83 g/litre Concentration: 100 %

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.

FR AQQUA

Revision nr. 4
Dated 18/04/2022
Printed on 18/04/2022
Page n. 12/21
Replaced revision:3 (Dated: 07/03/2021)

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:

ATE (Oral) of the mixture:

Not classified (no significant component)

Not classified (no significant component)

ATE (Dermal) of the mixture:

Not classified (no significant component)

ETHANOL

LD50 (Oral): > 5000 mg/kg Rat

LC50 (Inhalation vapours): 120 mg/l/4h Pimephales promelas

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

Acetyl cedrene

LD50 (Oral): 4500 mg/kg Rat LD50 (Dermal): 5000 mg/kg Rabbit

6-acetyl-1,1,2,4,4,7-hexamethyl tetralin

LD50 (Oral): 920 mg/kg Rat LD50 (Dermal): 7940 mg/kg Rat

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

Linalyl acetate

 LĎ50 (Oral):
 9000 mg/kg Rat

 LD50 (Dermal):
 5000 mg/kg Rabbit

Linalool

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

Piperonal

LD50 (Oral): 2700 mg/kg Rat LD50 (Dermal): 5000 mg/kg Rat

FR AQQUA

Revision nr. 4
Dated 18/04/2022
Printed on 18/04/2022
Page n. 13/21
Replaced revision:3 (Dated: 07/03/2021)

Methyl-3,4-methylene-dioxydrocinnamaldehyde

LD50 (Oral): 3362 mg/kg Rat LD50 (Dermal): 2000 mg/kg Rabbit

Coumarin

LD50 (Oral): 293 mg/kg Rat

STA (Oral): 500 mg/kg estimate from table 3.1.2 of Annex I of the CLP

(figure used for calculation of the acute toxicity estimate of the mixture)

Bicyclo (3.1.1) Heptane, 6,6-Dimethyl-2-Methylene -, (1s) -LD50 (Oral):

> 5000 mg/kg Rat

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

Sensitising for the skin

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

FR AQQUA

Revision nr. 4
Dated 18/04/2022
Printed on 18/04/2022
Page n. 14/21
Replaced revision:3 (Dated: 07/03/2021)

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 is toxic for aquatic organisms. In the long term, it have negative effects on acquatic environment.

12.1. Toxicity

(R)-P-MENTHA-1,8-DIENE

LC50 - for Fish 35 mg/l/96h Oncorhynchus mykiss EC50 - for Crustacea 69,6 mg/l/48h Daphnia pulex

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)

6-acetyl-1,1,2,4,4,7-hexamethyl tetralin

 LC50 - for Fish
 1,49 mg/l/96h

 Chronic NOEC for Fish
 0,035 mg/l 34 days

 Chronic NOEC for Crustacea
 0,022 mg/l 6 days

Chronic NOEC for Algae / Aquatic Plants 0,404 mg/l freshwater algae

Acetyl cedrene

LC50 - for Fish> 2,3 mg/l/96hChronic NOEC for Crustacea0,087 mg/l 21 daysChronic NOEC for Algae / Aquatic Plants1,07 mg/l 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

Methyl-3,4-methylene-

dioxydrocinnamaldehyde LC50 - for Fish

 LC50 - for Fish
 5,3 mg/l/96h

 EC50 - for Algae / Aquatic Plants
 28 mg/l/72h

FR AQQUA

Revision nr. 4
Dated 18/04/2022
Printed on 18/04/2022
Page n. 15/21
Replaced revision:3 (Dated: 07/03/2021)

Chronic NOEC for Algae / Aquatic Plants 6,25 mg/l

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

LC50 - for Fish

Chronic NOEC for Fish

Chronic NOEC for Crustacea

Chronic NOEC for Algae / Aquatic Plants

1,3 mg/l/96h

> 0,16 mg/l 30 days

> 0,028 mg/l 21 days

2,6 mg/l freshwater algae

Coumarin

LC50 - for Fish> 1,324 mg/l/96hChronic NOEC for Fish8,012 mg/l 30 daysChronic NOEC for Crustacea0,5 mg/l 21 daysChronic NOEC for Algae / Aquatic Plants0,431 mg/l 72h

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

Piperonal

 LC50 - for Fish
 2,5 mg/l/96h

 EC50 - for Algae / Aquatic Plants
 31 mg/l/72h

Chronic NOEC for Algae / Aquatic Plants 4,8 mg/l freshwater algae

Bicyclo (3.1.1) Heptane, 6,6-Dimethyl-2-

Methylene -, (1s) -LC50 - for Fish

LC50 - for Fish > 0,502 mg/l/96h

12.2. Persistence and degradability

(R)-P-MENTHA-1,8-DIENE

Solubility in water 0,1 - 100 mg/l

Rapidly degradable

ETHANOL

Solubility in water 1000 - 10000 mg/l

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

6-acetyl-1,1,2,4,4,7-hexamethyl tetralin

Solubility in water 1,25 mg/l

Entirely degradable

FR AQQUA

Revision nr. 4
Dated 18/04/2022
Printed on 18/04/2022
Page n. 16/21
Replaced revision:3 (Dated: 07/03/2021)

Acetyl cedrene

Solubility in water 6 mg/l @ 23°C

NOT rapidly degradable

Linalool

Solubility in water 1,56 g/l

Rapidly degradable

Methyl-3,4-methylenedioxydrocinnamaldehyde

Solubility in water 934 mg/l

Entirely 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

Coumarin

Solubility in water 1,9 g/l

Rapidly degradable

Linalyl acetate

Solubility in water 30 mg/l

Rapidly degradable

Piperonal

Solubility in water 1,4 g/l

Rapidly degradable

Bicyclo (3.1.1) Heptane, 6,6-Dimethyl-2-

Methylene -, (1s) -

Solubility in water 6,95 mg/l

Rapidly degradable

12.3. Bioaccumulative potential

(R)-P-MENTHA-1,8-DIENE

Partition coefficient: n-octanol/water 4,38 BCF 1022

ETHANOL

Partition coefficient: n-octanol/water -0,35

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

6-acetyl-1,1,2,4,4,7-hexamethyl tetralin

FR AQQUA

Revision nr. 4 Dated 18/04/2022 Printed on 18/04/2022 Page n. 17/21 Replaced revision:3 (Dated: 07/03/2021)

Partition coefficient: n-octanol/water 5,4 Log Kow **BCF** 597 L/kg ww

Acetyl cedrene

Partition coefficient: n-octanol/water 5.9 Log Kow

BCF 3920 dimensionless

Linalool

Partition coefficient: n-octanol/water 2,9 Log Kow @ 20°C

Methyl-3,4-methylenedioxydrocinnamaldehyde

Partition coefficient: n-octanol/water 2,4 Log Kow @ 25°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

Coumarin

Partition coefficient: n-octanol/water 1,39 Log Kow @ 25°C

Linalyl acetate

Partition coefficient: n-octanol/water 3,9 Log Kow **BCF** 174 L/kg ww

Piperonal

Partition coefficient: n-octanol/water 1,2 Log Kow

Bicyclo (3.1.1) Heptane, 6,6-Dimethyl-2-

Methylene -, (1s) -

Partition coefficient: n-octanol/water 4,4 Log Kow **BCF** 838 L/kg ww

12.4. Mobility in soil

Methyl-3,4-methylenedioxydrocinnamaldehyde

Partition coefficient: soil/water 71,3 Koc @ 20°C

Piperonal

Partition coefficient: soil/water 11,8 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 ≥ 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

FR AQQUA

Revision nr. 4
Dated 18/04/2022
Printed on 18/04/2022
Page n. 18/21
Replaced revision:3 (Dated: 07/03/2021)

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

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

14.5. Environmental hazards

ADR / RID: Environmentally

Hazardous

IMDG: Marine Pollutant

IATA: NO

For Air transport, environmentally hazardous mark is only mandatory for UN 3077 and UN 3082.



FR AQQUA

Revision nr. 4Dated 18/04/2022
Printed on 18/04/2022
Page n. 19/21

Replaced revision:3 (Dated: 07/03/2021)

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
Pass.: Maximum quantity: 5 L Packaging

Special provision: A3, A72

Packaging instructions: 364
Packaging instructions: 353

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-E2

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 ≥ 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

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

FR AQQUA

Revision nr. 4
Dated 18/04/2022
Printed on 18/04/2022
Page n. 20/21
Replaced revision:3 (Dated: 07/03/2021)

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

Flam. Liq. 2 Flammable liquid, category 2

Repr. 2 Reproductive toxicity, category 2

Acute Tox. 4 Acute toxicity, category 4

Asp. Tox. 1 Aspiration hazard, category 1

Eye Irrit. 2 Eye irritation, category 2

Skin Irrit. 2 Skin irritation, category 2

Skin Sens. 1B Skin sensitization, category 1B

Aquatic Acute 1 Hazardous to the aquatic environment, acute toxicity, category 1

Aquatic Chronic 1 Hazardous to the aquatic environment, chronic toxicity, category 1

Aquatic Chronic 2 Hazardous to the aquatic environment, chronic toxicity, category 2

H225 Highly flammable liquid and vapour.

H361 Suspected of damaging fertility or the unborn child.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H319 Causes serious eye irritation.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.H411 Toxic 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
- WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY

FR AQQUA

Revision nr. 4 Dated 18/04/2022 Printed on 18/04/2022 Page n. 21/21 Replaced revision:3 (Dated: 07/03/2021)

- 1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
- 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
- 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 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
- 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
- 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
- 10. Regulation (EÚ) 2015/1221 (VII Atp. CLP) of the European Parliament
- 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
- 12. Regulation (EU) 2016/1179 (IX Atp. CLP)
- 13. Regulation (EU) 2017/776 (X Atp. CLP)
- 14. Regulation (EU) 2018/669 (XI Atp. CLP)
- 15. Regulation (EU) 2019/521 (XII Atp. CLP)
- 16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)
- 17. Regulation (EU) 2019/1148
- 18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)
- 19. Delegated Regulation (UE) 2020/1182 (XV Atp. CLP)
- 20. Delegated Regulation (UE) 2021/643 (XVI Atp. CLP)
- 21. Delegated Regulation (UE) 2021/849 (XVII Atp. CLP)
- 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.