

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Date of issue:9/5/2017 Revision date: Supersedes:9/5/2017 Version: 1.0

	ntification of the aubotom	oolmixturo and of the cor	nnonvlunderteking	
1.1. Product i		ce/mixture and of the cor		
Product form		ubatanaa		
		ubstance ARROW MILFOIL OIL		
Substance name				
EC no		82-030-6		
CAS No		4082-83-7		
Product code		IILHE01		
Product group	: E	ssential oil		
1.2. Relevant	identified uses of the substance	e or mixture and uses advised a	gainst	
1.2.1. Relevant	identified uses			
Main use category	: Ir	ndustrial use, Professional use		
ndustrial/Professior	al use spec : F	or professional use only		
1.2.2. Uses adv	ised against			
No additional inform	ation available			
1.3. Details of	the supplier of the safety data	sheet		
EXAFLOR				
5 rue des Pyrénées				
94653 Rungis Cede				
I +33 (0)1 41 73 23 exaflor@orange.fr -	10 - F +33 (0)1 41 73 23 19			
-	www.exanor.m			
1.4. Emergen	cy telephone number			
Country	Organisation/Company	Address	Emergency number	Comment
	ORFILA (FRANCE)		+33 1 45 42 59 59	
			•	
	zards identification			
	the second state and a state and a state of the			
c.i. Classifica	tion of the substance or mixtur	e		
	tion of the substance or mixtur ording to Regulation (EC) No. 12			
Classification acco	ording to Regulation (EC) No. 12		H226	
Classification acco	ording to Regulation (EC) No. 12 Category 3		H226 H302	
Classification acco Flammable liquids, Acute toxicity (oral),	ording to Regulation (EC) No. 12 Category 3 Category 4			
Classification acco Flammable liquids, ⁽ Acute toxicity (oral), Skin corrosion/irritat	ording to Regulation (EC) No. 12 Category 3 Category 4		H302	
Classification acco Flammable liquids, 4 Acute toxicity (oral), Skin corrosion/irritat Serious eye damage	ording to Regulation (EC) No. 12 Category 3 Category 4 ion, Category 2 e/eye irritation, Category 2		H302 H315	
Classification acco Flammable liquids, 4 Acute toxicity (oral), Skin corrosion/irritat Serious eye damag Sensitisation — Ski	ording to Regulation (EC) No. 12 Category 3 Category 4 ion, Category 2 e/eye irritation, Category 2 h, Category 1	72/2008 [CLP]	H302 H315 H319 H317	
Classification acco Flammable liquids, 4 Acute toxicity (oral), Skin corrosion/irritat Serious eye damag Sensitisation — Skii Specific target organ	ording to Regulation (EC) No. 12 Category 3 Category 4 ion, Category 2 e/eye irritation, Category 2 n, Category 1 n toxicity — Single exposure, Cate		H302 H315 H319 H317 H335	
Classification acco Flammable liquids, 4 Acute toxicity (oral), Skin corrosion/irritat Serious eye damag Sensitisation — Skii Specific target organ Aspiration hazard, C	ording to Regulation (EC) No. 12 Category 3 Category 4 ion, Category 2 e/eye irritation, Category 2 n, Category 1 n toxicity — Single exposure, Cate Category 1	72/2008 [CLP]	H302 H315 H319 H317 H335 H304	
Classification acco Flammable liquids, 4 Acute toxicity (oral), Skin corrosion/irritat Serious eye damage Sensitisation — Skin Specific target organ Aspiration hazard, C Hazardous to the ac	ording to Regulation (EC) No. 12 Category 3 Category 4 ion, Category 2 e/eye irritation, Category 2 n, Category 1 n toxicity — Single exposure, Cate category 1 uatic environment — Acute Hazar	r72/2008 [CLP] egory 3, Respiratory tract irritation rd, Category 1	H302 H315 H319 H317 H335	
Classification acco Flammable liquids, 4 Acute toxicity (oral), Skin corrosion/irritat Serious eye damag Sensitisation — Skii Specific target organ Aspiration hazard, C Hazardous to the ac	Arding to Regulation (EC) No. 12 Category 3 Category 4 ion, Category 2 e/eye irritation, Category 2 n, Category 1 n toxicity — Single exposure, Cate Category 1 uatic environment — Acute Hazan uatic environment — Chronic Haz	r72/2008 [CLP] egory 3, Respiratory tract irritation rd, Category 1	H302 H315 H319 H317 H335 H304 H400	
Classification acco Flammable liquids, 4 Acute toxicity (oral), Skin corrosion/irritat Serious eye damag Sensitisation — Skii Specific target organ Aspiration hazard, C Hazardous to the ac Hazardous to the ac	ording to Regulation (EC) No. 12 Category 3 Category 4 ion, Category 2 e/eye irritation, Category 2 n, Category 1 n toxicity — Single exposure, Cate category 1 uatic environment — Acute Hazar	r72/2008 [CLP] egory 3, Respiratory tract irritation rd, Category 1	H302 H315 H319 H317 H335 H304 H400	
Classification acco Flammable liquids, 4 Acute toxicity (oral), Skin corrosion/irritat Serious eye damage Sensitisation — Skin Specific target organ Aspiration hazard, C Hazardous to the ac Hazardous to the ac Full text of H statem	Arding to Regulation (EC) No. 12 Category 3 Category 4 ion, Category 2 e/eye irritation, Category 2 h, Category 1 h toxicity — Single exposure, Cate Category 1 uatic environment — Acute Hazar uatic environment — Chronic Hazar ents : see section 16	r72/2008 [CLP] egory 3, Respiratory tract irritation rd, Category 1	H302 H315 H319 H317 H335 H304 H400	
Classification accor Flammable liquids, 4 Acute toxicity (oral), Skin corrosion/irritat Serious eye damage Sensitisation — Skin Specific target organ Aspiration hazard, C Hazardous to the ac Hazardous to the ac Full text of H statem 2.2. Label ele	Arding to Regulation (EC) No. 12 Category 3 Category 4 ion, Category 2 e/eye irritation, Category 2 n, Category 1 n toxicity — Single exposure, Cate Category 1 uatic environment — Acute Hazan uatic environment — Chronic Haz ents : see section 16	r72/2008 [CLP] egory 3, Respiratory tract irritation rd, Category 1 card, Category 1	H302 H315 H319 H317 H335 H304 H400	
Classification accor Flammable liquids, 4 Acute toxicity (oral), Skin corrosion/irritat Serious eye damage Sensitisation — Skii Specific target organ Aspiration hazard, C Hazardous to the ac Hazardous to the ac Full text of H statem 2.2. Label ele	ording to Regulation (EC) No. 12 Category 3 Category 4 ion, Category 2 e/eye irritation, Category 2 n, Category 1 n toxicity — Single exposure, Cate category 1 uatic environment — Acute Hazar uatic environment — Chronic Haz ents : see section 16 ments g to Regulation (EC) No. 1272/2	r72/2008 [CLP] egory 3, Respiratory tract irritation rd, Category 1 card, Category 1	H302 H315 H319 H317 H335 H304 H400	

Signal word (CLP) Hazard statements (CLP) GHS02

: Danger

- H302 Harmful if swallowed
 - H304 May be fatal if swallowed and enters airways

GHS07

GHS08

GHS09

- H315 Causes skin irritation H317 May cause an allergic skin reaction
- H319 Causes serious eye irritation

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	H335 - May cause respiratory irritation H410 - Very toxic to aquatic life with long lasting effects
Precautionary statements (CLP)	 P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking P233 - Keep container tightly closed P240 - Ground/bond container and receiving equipment P241 - Use explosion-proof ventilating equipment P261 - Avoid breathing dust, fume, mist, vapours P264 - Wash hands thoroughly after handling P270 - Do not eat, drink or smoke when using this product P271 - Use only outdoors or in a well-ventilated area P272 - Contaminated work clothing should not be allowed out of the workplace P273 - Avoid release to the environment P280 - Wear eye protection, protective clothing, protective gloves P301+P310 - IF SWALLOWED: Immediately call a doctor, a POISON CENTER
	 P301+P312 - IF SWALLOWED: Call a doctor, a POISON CENTER if you feel unwell P302+P352 - IF ON SKIN: Wash with plenty of water P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P321 - Specific treatment (see Read label before use on this label) P330 - Rinse mouth P331 - Do NOT induce vomiting P333+P313 - If skin irritation or rash occurs: Get medical advice/attention P337+P313 - If eye irritation persists: Get medical advice/attention P362+P378 - In case of fire: Use carbon dioxide (CO2), foam to extinguish P391 - Collect spillage P403+P233 - Store in a well-ventilated place. Keep container tightly closed P403+P235 - Store in a well-ventilated place. Keep cool
	P501 - Dispose of contents/container to contents/container to agreemented companies according to national regulations
Child-resistant fastening	: No
Tactile warning	: No

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients		
3.1.	Substance	
Name		: YARROW MILFOIL OIL
CAS No		: 84082-83-7
EC no		: 282-030-6

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
BETA-PINENES	(CAS No) 127-91-3 (EC no) 204-872-5	<= 45	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Asp. Tox. 1, H304
ALPHA-PINENES	(CAS No) 80-56-8 (EC no) 201-291-9	<= 25	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
CAMPHOR	(CAS No) 76-22-2 (EC no) 200-945-0	<= 25	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Aquatic Chronic 3, H412
EUCALYPTOL	(CAS No) 470-82-6 (EC no) 207-431-5	<= 25	Flam. Liq. 3, H226
SABINENE	(CAS No) 3387-41-5 (EC no) 222-212-4	<= 25	Flam. Liq. 3, H226
BETA-CARYOPHYLLENE	(CAS No) 87-44-5 (EC no) 201-746-1	<= 15	Not classified

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BORNEOL	(CAS No) 507-70-0 (EC no) 208-080-0	<= 10	Skin Sens. 1, H317
P-CYMENE	(CAS No) 99-87-6 (EC no) 202-796-7	<= 10	Flam. Liq. 3, H226 Aquatic Chronic 2, H411
D-LIMONENE	(CAS No) 5989-27-5 (EC no) 227-813-5 (EC index no) 601-029-00-7	<= 8	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
NEROLIDOL ISOMERS	(CAS No) 7212-44-4 (EC no) 230-597-5	<= 6	Eye Irrit. 2, H319 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
CAMPHENE	(CAS No) 79-92-5 (EC no) 201-234-8	<= 6	Eye Irrit. 2, H319 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
4-TERPINEOL	(CAS No) 562-74-3 (EC no) 209-235-5	<= 6	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
MYRCENE	(CAS No) 123-35-3 (EC no) 204-622-5	<= 5	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2, H319
ALPHA-TERPINEOL	(CAS No) 98-55-5 (EC no) 202-680-6	<= 3	Skin Irrit. 2, H315 Eye Irrit. 2, H319
CITRONELLOL	(CAS No) 106-22-9 (EC no) 203-375-0	<= 2	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411
GERANIOL	(CAS No) 106-24-1 (EC no) 203-377-1	<= 1	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317
LINALOOL	(CAS No) 78-70-6 (EC no) 201-134-4	<= 1	Skin Irrit. 2, H315 Eye Irrit. 2, H319
CITRAL	(CAS No) 5392-40-5 (EC no) 226-394-6	<= 1	Skin Irrit. 2, H315 Skin Sens. 1, H317
EUGENOL	(CAS No) 97-53-0 (EC no) 202-589-1	<= 1	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411

Full text of H-statements: see section 16

3.2. Mixture	
Not applicable	
SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures after inhalation	 Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
First-aid measures after skin contact	: Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Wash with plenty of soap and water. Get medical advice/attention. Specific treatment (see Read label before use on this label). If skin irritation or rash occurs: Gently wash with plenty of soap and water.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Consult an eye specialist. Get medical advice/attention.
First-aid measures after ingestion	: Rinse mouth. Call a POISON CENTER or doctor/physician if you feel unwell. Immediately call a POISON CENTER or doctor/physician.
4.2. Most important symptoms and ef	fects, both acute and delayed
Symptoms/injuries after inhalation	: May cause an allergic skin reaction. May cause respiratory irritation.
Symptoms/injuries after skin contact	: Causes skin irritation.
Symptoms/injuries after eye contact	: Causes serious eye irritation.
Symptoms/injuries after ingestion	: Swallowing a small quantity of this material will result in serious health hazard. May be fatal if swallowed and enters airways.
4.3. Indication of any immediate medi	cal attention and special treatment needed
No additional information available	

SECTION 5: Firefighting measures		
5.1. Ext	nguishing media	
No additional	information available	
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5.2. Special hazards aris	ing from the substance or mixture				
Fire hazard : Flammable liquid and vapour.					
Explosion hazard	Explosion hazard : May form flammable/explosive vapour-air mixture.				
5.3. Advice for firefighters					
No additional information availa					
SECTION 6: Accidental	rologgo mogguros				
		eeduree			
6.1. Personal precaution General measures	s, protective equipment and emergency pro	Use special care to avoid static electric charges. No open flames. No			
General measures	smoking.	Ose special care to avoid static electric charges. No open names. No			
6.1.1. For non-emergency	personnel				
No additional information availa	ble				
6.1.2. For emergency resp	onders				
No additional information availa	ble				
6.2. Environmental preca	autions				
Avoid release to the environmer	nt.				
6.3. Methods and materia	al for containment and cleaning up				
No additional information availa					
6.4. Reference to other s	ections				
No additional information available					
SECTION 7: Handling an					
7.1. Precautions for safe	•				
Additional hazards when processed : Handle empty containers with care because residual vapours are flammable.		·			
Precautions for safe handling : No open flames. No smoking. Take precautionary measures against static discharge. U non-sparking tools. Avoid breathing fume, mist, dust, vapours. Use only outdoors or in a ventilated area.					
Hygiene measures : Do not eat, drink or smoke when using this product. Wash hands thoroughly af Contaminated work clothing should not be allowed out of the workplace. Wash clothing before reuse.					
7.2. Conditions for safe	storage, including any incompatibilities				
Technical measures : Proper grounding procedures to avoid static electricity should be followed. container and receiving equipment. Use explosion-proof ventilating equipment					
Storage conditions	: Keep container tightly close	: Keep container tightly closed.			
Incompatible materials	'	: Heat sources. Plain Iron packaging.			
Maximum storage period		ee the quality and properties of the product; After this period, it is rganoleptic and physicochemical properties before using the raw			
Storage temperature	: ≈ 18 (5 - 25) °C				
7.3. Specific end use(s)					
No additional information availat	ble				
	controls/personal protection				
8.1. Control parameters					
CAMPHOR (76-22-2)					
France		Camphre			
France	VME (mg/m ³)	12 mg/m ³			

8.2. Exposure controls

Skin and body protection	: Wear suitable protective clothing
Respiratory protection	: Wear respiratory protection

VME (ppm)

SECTION 9: Physical ar	nd chemical properties
9.1. Information on basi	c physical and chemical properties
Physical state	: Liquid
Colour	: Green. dark blue.
Odour	: Fatty. sharp.
0/0/0047	

2 ppm

France

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Odour threshold	: No data available
рН	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: ≤ 59 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Flammable liquid and vapour
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: 0.87 - 0.96
Solubility	: Insoluble in water. Solubility in ethanol.
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available
9.2. Other information	
Refractive index	: 1.465 - 1.49

SECTIO	DN 10: Stability and reactivity
10.1.	Reactivity
No additio	onal information available
10.2.	Chemical stability
Flammab	le liquid and vapour. May form flammable/explosive vapour-air mixture.
10.3.	Possibility of hazardous reactions
No additio	onal information available
10.4.	Conditions to avoid
Open flan	ne. Overheating. Direct sunlight. Heat. Sparks.
10.5.	Incompatible materials
	onal information available
10.6.	Hazardous decomposition products
May relea	ase flammable gases.

SECTION 11: Toxicological information	n
11.1. Information on toxicological effects	
Acute toxicity	Oral: Harmful if swallowed.
EUCALYPTOL (470-82-6)	
LD50 oral rat	2480 ml/kg
CAMPHOR (76-22-2)	
LD50 dermal	3040 mg/kg rat
ALPHA-PINENES (80-56-8)	
LD50 oral rat	3700 mg/kg
LD50 dermal rabbit	> 5000 mg/kg
P-CYMENE (99-87-6)	
LD50 oral rat	4750 mg/kg
LD50 dermal rabbit	5000
BORNEOL (507-70-0)	
LD50 oral rat	5800 mg/kg [French Demande Patent Document. Vol. #2448856]
LD50 oral	1059 mg/kg LD50 oral mouse [Shika Gakuho. Journal of Dentistry. Vol. 75, Pg. 934, 1975]
LD50, mammalian, acute, oral, rabbit, systemic	= 2000 mg/kg ([Reviews of Environmental Contamination and Toxicology. Vol. 113, Pg. 47, 1990])

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D-LIMONENE (5989-27-5)	
LD50 oral rat	4400 mg/kg
LD50 dermal rabbit	> 5000 mg/kg
4-TERPINEOL (562-74-3)	
LD50 oral rat	1300 mg/kg
LD50 dermal rabbit	2500 mg/kg
CAMPHENE (79-92-5)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 2500 mg/kg
NEROLIDOL ISOMERS (7212-44-4)	
LD50 oral rat	> 5000 mg/kg LD50 oral rat
LD50 oral	15000 mg/kg LD50 oral mouse
LD50 dermal rabbit	> 5000 mg/kg LD50 dermal rabbit
MYRCENE (123-35-3)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 5000 mg/kg
CITRONELLOL (106-22-9)	
LD50 oral rat	3450 mg/kg
LD50 dermal rabbit	2650 mg/kg
EUGENOL (97-53-0)	
LD50 oral rat	1930 mg/kg
LC50 inhalation rat (ppm)	> 384 ppmv/4h
CITRAL (5392-40-5)	
LD50 oral rat	4960 mg/kg
LD50 oral	6000 mg/kg LD50 oral mouse
LD50 dermal rabbit	2550 mg/kg
LINALOOL (78-70-6)	
LD50 oral rat	2790 mg/kg
LD50 oral	3120 mg/kg LD50 oral mouse
LD50 dermal rabbit	5610 mg/kg
GERANIOL (106-24-1)	·
LD50 oral rat	3600 mg/kg
LD50 dermal rabbit	> 5000 mg/kg
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitisation	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: May cause respiratory irritation.
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: May be fatal if swallowed and enters airways.
Potential adverse human health effects and symptoms	: Harmful if swallowed.

SECTION 12: Ecological information	
12.1. Toxicity	
Ecology - water :	Very toxic to aquatic life with long lasting effects.
EUCALYPTOL (470-82-6)	
LC50 fish 1	102 mg/l Pimephales promela (fathead minnow) - 96H
CAMPHOR (76-22-2)	
LC50 fish 1	50 mg/l LC50 96h fish
ALPHA-PINENES (80-56-8)	
LC50 fish 1	0.28 mg/l Pimephales promela (fathead minnow) - 96h
LC50 other aquatic organisms 1	41 mg/l EC50 48h - Daphnia magna [mg/l]
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P-CYMENE (99-87-6)		
LC50 fish 1	48 mg/l 96H -Cyprinodon variegatus (Sheep shead minnow)	
EC50 Daphnia 1	6.5 mg/l EC50 48h - Daphnia magna [mg/l]	
ErC50 (algae)	4.03 mg/l 72h - Scenedesmus capricornutum (Fresh water algae)	
D-LIMONENE (5989-27-5)		
LC50 fish 1	0.702 mg/l Pimephales promela (fathead minnow) -96h	
EC50 Daphnia 1	69.6 daphnia - 48h	
CAMPHENE (79-92-5)		
LC50 fish 1	0.72 mg/l	
EC50 Daphnia 1	22 mg/l	
EC50 other aquatic organisms 1	1000	
NEROLIDOL ISOMERS (7212-44-4)		
LC50 fish 1	1.8 mg/l Brachydanio rerio (zebra-fish) - 96h	
LC50 fish 2	1.43 mg/l Pimephales promela (fathead minnow) - 96h	
EC50 Daphnia 1	0.5103 mg/l EC50 48h - Daphnia magna [mg/l]	
EC50 Daphnia 2	0.94 mg/l EC50 48h - Daphnia magna [mg/l]	
EC50 other aquatic organisms 1	1.2 mg/l Desmodesmus subspicatus (green algae) - 72h	
EC50 other aquatic organisms 2	2 mg/l Desmodesmus subspicatus (green algae) - 72h	
NOEC chronic fish	0.64 mg/l Pimephales promela (fathead minnow) - 96h	
NOEC chronic algae	0.44 mg/l Desmodesmus subspicatus (green algae) - 72h	
CITRONELLOL (106-22-9)		
LC50 fish 1	10 - 22 mg/l Leuciscus idus (Ide; golden orfe) - 96h	
EC50 Daphnia 1	17 mg/l daphnia - 48h	
EC50 other aquatic organisms 1	2.4 mg/l algae - 72h	
EUGENOL (97-53-0)		
LC50 fish 1	13 mg/l Brachydanio rerio (zebra-fish) - 96h	
EC50 Daphnia 1	1.13 mg/l EC50 48h - Daphnia magna [mg/l]	
LINALOOL (78-70-6)		
LC50 fish 1	27.8 mg/I EC 50 (fish : rainbow trout) : - 96h	
LC50 other aquatic organisms 1	88.3 mg/l Desmodesmus subspicatus (green algae) - 96h	
EC50 Daphnia 1	59 mg/l EC50 48h - Daphnia magna [mg/l]	
NOEC chronic fish	3.5 mg/l Oncorhynchus mykiss (Rainbow trout)- 96h	
NOEC chronic crustacea	25 mg/l daphnia - 48h	
GERANIOL (106-24-1)		
LC50 fish 1	env. 22 mg/l Brachydanio rerio (zebra-fish) - 96h	
EC50 Daphnia 1	10.8 mg/l EC50 48h - Daphnia magna [mg/l]	
EC50 other aquatic organisms 1	13.1 mg/l Desmodesmus subspicatus (green algae) -72h	

12.2. Persistence and degradability

YARROW MILFOIL OIL (84082-83-7)		
Persistence and degradability	May cause long-term adverse effects in the environment.	
BETA-PINENES (127-91-3)		
Persistence and degradability	Not established.	
SABINENE (3387-41-5)		
Persistence and degradability	Not established.	
CAMPHOR (76-22-2)		
Persistence and degradability	May cause long-term adverse effects in the environment.	
BOD (% of ThOD)	94 % ThOD	
ALPHA-PINENES (80-56-8)		
Persistence and degradability	Readily biodegradable. May cause long-term adverse effects in the environment.	
BETA-CARYOPHYLLENE (87-44-5)		
Persistence and degradability	Not established.	
P-CYMENE (99-87-6)		
Persistence and degradability	Readily biodegradable.	
Biodegradation	100 %	
BORNEOL (507-70-0)		
Persistence and degradability	Not established.	

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D-LIMONENE (5989-27-5)		
Persistence and degradability	May cause long-term adverse effects in the environment.	
4-TERPINEOL (562-74-3)		
Persistence and degradability	Not established.	
CAMPHENE (79-92-5)		
Biodegradation	4 % aerobic - No readily biodegradable	
NEROLIDOL ISOMERS (7212-44-4)		
Persistence and degradability	May aque long term adverse affects in the apvironment	
Biodegradation	May cause long-term adverse effects in the environment. 50 - 80 % 28 days	
	50 - 60 % 26 days	
MYRCENE (123-35-3)		
Persistence and degradability	Not established.	
ALPHA-TERPINEOL (98-55-5)		
Persistence and degradability	Not established.	
CITRONELLOL (106-22-9)		
Persistence and degradability	Readily biodegradable. May cause long-term adverse effects in the environment.	
Chemical oxygen demand (COD)	2.05 g O ₂ /g substance	
	1.00 9 029 04004.00	
EUGENOL (97-53-0)		
Persistence and degradability	Readily biodegradable. May cause long-term adverse effects in the environment.	
CITRAL (5392-40-5)		
Persistence and degradability	Not established.	
LINALOOL (78-70-6)		
Persistence and degradability	Readily biodegradable. Not established.	
Biodegradation	100 % 13 DAYS- ZAHN-WELLENS TEST OECD N° 302 B	
GERANIOL (106-24-1)		
Persistence and degradability	Readily biodegradable. Not established.	
Biodegradation	80 - 100 % aérobic, Exposure duration 3 days	
12.3. Bioaccumulative potential		
BETA-PINENES (127-91-3)		
BETA-PINENES (127-91-3) Bioaccumulative potential	Not established.	
	Not established.	
Bioaccumulative potential	Not established. Not established.	
Bioaccumulative potential SABINENE (3387-41-5)		
Bioaccumulative potential SABINENE (3387-41-5) Bioaccumulative potential		
Bioaccumulative potential SABINENE (3387-41-5) Bioaccumulative potential CAMPHOR (76-22-2)	Not established.	
Bioaccumulative potential SABINENE (3387-41-5) Bioaccumulative potential CAMPHOR (76-22-2) Bioconcentration factor (BCF REACH) Log Pow Log Kow	Not established. 38	
Bioaccumulative potential SABINENE (3387-41-5) Bioaccumulative potential CAMPHOR (76-22-2) Bioconcentration factor (BCF REACH) Log Pow	Not established. 38 2.38	
Bioaccumulative potential SABINENE (3387-41-5) Bioaccumulative potential CAMPHOR (76-22-2) Bioconcentration factor (BCF REACH) Log Pow Log Kow	Not established. 38 2.38 2.95	
Bioaccumulative potential SABINENE (3387-41-5) Bioaccumulative potential CAMPHOR (76-22-2) Bioconcentration factor (BCF REACH) Log Pow Log Kow Bioaccumulative potential	Not established. 38 2.38 2.95	
Bioaccumulative potentialSABINENE (3387-41-5)Bioaccumulative potentialCAMPHOR (76-22-2)Bioconcentration factor (BCF REACH)Log PowLog KowBioaccumulative potentialALPHA-PINENES (80-56-8)	Not established. 38 2.38 2.95 Not established.	
Bioaccumulative potential SABINENE (3387-41-5) Bioaccumulative potential CAMPHOR (76-22-2) Bioconcentration factor (BCF REACH) Log Pow Log Kow Bioaccumulative potential ALPHA-PINENES (80-56-8) Log Pow	Not established. 38 2.38 2.95 Not established.	
Bioaccumulative potential SABINENE (3387-41-5) Bioaccumulative potential CAMPHOR (76-22-2) Bioconcentration factor (BCF REACH) Log Pow Log Kow Bioaccumulative potential ALPHA-PINENES (80-56-8) Log Pow Bioaccumulative potential	Not established. 38 2.38 2.95 Not established.	
Bioaccumulative potential SABINENE (3387-41-5) Bioaccumulative potential CAMPHOR (76-22-2) Bioconcentration factor (BCF REACH) Log Pow Log Kow Bioaccumulative potential ALPHA-PINENES (80-56-8) Log Pow Bioaccumulative potential BETA-CARYOPHYLLENE (87-44-5) Bioaccumulative potential	Not established. 38 2.38 2.95 Not established. 4.834 Not established.	
Bioaccumulative potentialSABINENE (3387-41-5)Bioaccumulative potentialCAMPHOR (76-22-2)Bioconcentration factor (BCF REACH)Log PowLog KowBioaccumulative potentialALPHA-PINENES (80-56-8)Log PowBioaccumulative potentialBETA-CARYOPHYLLENE (87-44-5)Bioaccumulative potentialP-CYMENE (99-87-6)	Not established. 38 2.38 2.95 Not established. 4.834 Not established.	
Bioaccumulative potential SABINENE (3387-41-5) Bioaccumulative potential CAMPHOR (76-22-2) Bioconcentration factor (BCF REACH) Log Pow Log Kow Bioaccumulative potential ALPHA-PINENES (80-56-8) Log Pow Bioaccumulative potential BETA-CARYOPHYLLENE (87-44-5) Bioaccumulative potential P-CYMENE (99-87-6) Log Kow	Not established. 38 2.38 2.95 Not established. 4.834 Not established.	
Bioaccumulative potentialSABINENE (3387-41-5)Bioaccumulative potentialCAMPHOR (76-22-2)Bioconcentration factor (BCF REACH)Log PowLog KowBioaccumulative potentialALPHA-PINENES (80-56-8)Log PowBioaccumulative potentialBETA-CARYOPHYLLENE (87-44-5)Bioaccumulative potentialP-CYMENE (99-87-6)Log KowBORNEOL (507-70-0)	Not established. 38 2.38 2.95 Not established. 4.834 Not established. Vot established. 4.1	
Bioaccumulative potential SABINENE (3387-41-5) Bioaccumulative potential CAMPHOR (76-22-2) Bioconcentration factor (BCF REACH) Log Pow Log Kow Bioaccumulative potential ALPHA-PINENES (80-56-8) Log Pow Bioaccumulative potential BETA-CARYOPHYLLENE (87-44-5) Bioaccumulative potential P-CYMENE (99-87-6) Log Kow BORNEOL (507-70-0) Log Kow	Not established. 38 2.38 2.95 Not established. 4.834 Not established. Vot established. 4.1	
Bioaccumulative potentialSABINENE (3387-41-5)Bioaccumulative potentialCAMPHOR (76-22-2)Bioconcentration factor (BCF REACH)Log PowLog KowBioaccumulative potentialALPHA-PINENES (80-56-8)Log PowBioaccumulative potentialBETA-CARYOPHYLLENE (87-44-5)Bioaccumulative potentialP-CYMENE (99-87-6)Log KowBORNEOL (507-70-0)Log Kow	Not established. 38 2.38 2.95 Not established. 4.834 Not established. Vot established. 4.1	
Bioaccumulative potentialSABINENE (3387-41-5)Bioaccumulative potentialCAMPHOR (76-22-2)Bioconcentration factor (BCF REACH)Log PowLog KowBioaccumulative potentialALPHA-PINENES (80-56-8)Log PowBioaccumulative potentialBETA-CARYOPHYLLENE (87-44-5)Bioaccumulative potentialP-CYMENE (99-87-6)Log KowBORNEOL (507-70-0)Log KowBioaccumulative potential	Not established. 38 2.38 2.95 Not established. 4.834 Not established. 4.1 2.69 Not established.	
Bioaccumulative potentialSABINENE (3387-41-5)Bioaccumulative potentialCAMPHOR (76-22-2)Bioconcentration factor (BCF REACH)Log PowLog KowBioaccumulative potentialALPHA-PINENES (80-56-8)Log PowBioaccumulative potentialBETA-CARYOPHYLLENE (87-44-5)Bioaccumulative potentialP-CYMENE (99-87-6)Log KowBORNEOL (507-70-0)Log Kow	Not established. 38 2.38 2.95 Not established. 4.834 Not established. Vot established. 4.1	
Bioaccumulative potentialSABINENE (3387-41-5)Bioaccumulative potentialCAMPHOR (76-22-2)Bioconcentration factor (BCF REACH)Log PowLog KowBioaccumulative potentialALPHA-PINENES (80-56-8)Log PowBioaccumulative potentialBETA-CARYOPHYLLENE (87-44-5)Bioaccumulative potentialP-CYMENE (99-87-6)Log KowBORNEOL (507-70-0)Log KowBioaccumulative potential	Not established. 38 2.38 2.95 Not established. 4.834 Not established. 4.1 2.69 Not established.	
Bioaccumulative potential SABINENE (3387-41-5) Bioaccumulative potential CAMPHOR (76-22-2) Bioconcentration factor (BCF REACH) Log Pow Log Kow Bioaccumulative potential ALPHA-PINENES (80-56-8) Log Pow Bioaccumulative potential BETA-CARYOPHYLLENE (87-44-5) Bioaccumulative potential P-CYMENE (99-87-6) Log Kow Bioaccumulative potential P-CYMENE (507-70-0) Log Kow Bioaccumulative potential	Not established. 38 2.38 2.95 Not established. 4.834 Not established. 4.1 2.69 Not established.	
Bioaccumulative potentialSABINENE (3387-41-5)Bioaccumulative potentialCAMPHOR (76-22-2)Bioconcentration factor (BCF REACH)Log PowLog KowBioaccumulative potentialALPHA-PINENES (80-56-8)Log PowBioaccumulative potentialBETA-CARYOPHYLLENE (87-44-5)Bioaccumulative potentialP-CYMENE (99-87-6)Log KowBORNEOL (507-70-0)Log KowBioaccumulative potentialP-LIMONENE (5989-27-5)Bioaccumulative potential4-TERPINEOL (562-74-3)	Not established. 38 2.38 2.95 Not established. 4.834 Not established. 4.1 2.69 Not established. Vot established.	
Bioaccumulative potentialSABINENE (3387-41-5)Bioaccumulative potentialCAMPHOR (76-22-2)Bioconcentration factor (BCF REACH)Log PowLog KowBioaccumulative potentialALPHA-PINENES (80-56-8)Log PowBioaccumulative potentialBETA-CARYOPHYLLENE (87-44-5)Bioaccumulative potentialP-CYMENE (99-87-6)Log KowBioaccumulative potentialP-CYMENE (507-70-0)Log KowBioaccumulative potentialD-LIMONENE (5989-27-5)Bioaccumulative potential4-TERPINEOL (562-74-3)Bioaccumulative potential	Not established. 38 2.38 2.95 Not established. 4.834 Not established. 4.1 2.69 Not established. Vot established.	
Bioaccumulative potential SABINENE (3387-41-5) Bioaccumulative potential CAMPHOR (76-22-2) Bioconcentration factor (BCF REACH) Log Pow Log Kow Bioaccumulative potential ALPHA-PINENES (80-56-8) Log Pow Bioaccumulative potential BETA-CARYOPHYLLENE (87-44-5) Bioaccumulative potential P-CYMENE (99-87-6) Log Kow Bioaccumulative potential P-CYMENE (507-70-0) Log Kow Bioaccumulative potential D-LIMONENE (5989-27-5) Bioaccumulative potential 4-TERPINEOL (562-74-3) Bioaccumulative potential CAMPHENE (79-92-5) BCF fish 1	Not established. 38 2.38 2.95 Not established. 4.834 Not established. 4.1 2.69 Not established. Vot established. Vot established.	
Bioaccumulative potentialSABINENE (3387-41-5)Bioaccumulative potentialCAMPHOR (76-22-2)Bioconcentration factor (BCF REACH)Log PowLog KowBioaccumulative potentialALPHA-PINENES (80-56-8)Log PowBioaccumulative potentialBETA-CARYOPHYLLENE (87-44-5)Bioaccumulative potentialP-CYMENE (99-87-6)Log KowBioaccumulative potentialP-CYMENE (99-87-6)Log KowBioaccumulative potentialP-CYMENE (5989-27-5)Bioaccumulative potential4-TERPINEOL (562-74-3)Bioaccumulative potentialCAMPHENE (79-92-5)BCF fish 1NEROLIDOL ISOMERS (7212-44-4)	Not established. 38 2.38 2.95 Not established. 4.834 Not established. 4.1 2.69 Not established. Vot established. 9 Not established.	
Bioaccumulative potential SABINENE (3387-41-5) Bioaccumulative potential CAMPHOR (76-22-2) Bioconcentration factor (BCF REACH) Log Pow Log Kow Bioaccumulative potential ALPHA-PINENES (80-56-8) Log Pow Bioaccumulative potential BETA-CARYOPHYLLENE (87-44-5) Bioaccumulative potential P-CYMENE (99-87-6) Log Kow Bioaccumulative potential P-CYMENE (507-70-0) Log Kow Bioaccumulative potential D-LIMONENE (5989-27-5) Bioaccumulative potential 4-TERPINEOL (562-74-3) Bioaccumulative potential CAMPHENE (79-92-5) BCF fish 1	Not established. 38 2.38 2.95 Not established. 4.834 Not established. 4.1 2.69 Not established. Vot established. Vot established.	

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NEROLIDOL ISOMERS (7212-44-4)	NEROLIDOL ISOMERS (7212-44-4)		
Log Kow	5.32		
Bioaccumulative potential	Not established.		
MYRCENE (123-35-3)			
Log Kow	4.17		
Bioaccumulative potential	Not established.		
ALPHA-TERPINEOL (98-55-5)			
Bioaccumulative potential	Not established.		
CITRONELLOL (106-22-9)			
Log Pow	3.41		
Bioaccumulative potential	Not established.		
EUGENOL (97-53-0)			
Log Pow	2.7		
Log Kow	2.27		
Bioaccumulative potential	Not established.		
CITRAL (5392-40-5)	Not established		
Bioaccumulative potential	Not established.		
LINALOOL (78-70-6)			
Log Pow	2.97		
Bioaccumulative potential	Not established.		
GERANIOL (106-24-1)			
Log Pow	2.5 at 25 °C		
Bioaccumulative potential	Not established.		
12.4. Mobility in soil			
CAMPHOR (76-22-2)			
Log Koc	env. 2.67		
12.5. Results of PBT and vPvB assessme	nt		
No additional information available			
42.0 Other advance offecto			
12.6. Other adverse effects No additional information available			
SECTION 13: Disposal consideration	IS		
13.1. Waste treatment methods			
Waste disposal recommendations	: Dispose of contents/container to contents/container to agreemented companies according to national regulations.		
Additional information	: Handle empty containers with care because residual vapours are flammable.		
Ecology - waste materials	: Hazardous waste due to toxicity.		
SECTION 14: Transport information			
In accordance with ADR / RID / IMDG / IATA / A	DN		
14.1. UN number			
Not regulated for transport	4400		
UN-No. (ADR)	: 1169		
UN-No. (IMDG)	: Not applicable		
UN-No. (IATA)	: Not applicable		
UN-No. (ADN)	: Not applicable		
UN-No. (RID)	: Not applicable		
14.2. UN proper shipping name			
Proper Shipping Name (ADR)	: EXTRACTS, AROMATIC, LIQUID		
Proper Shipping Name (IMDG)	: Not applicable		
Proper Shipping Name (IATA)	: Not applicable		
Proper Shipping Name (ADN)	: Not applicable		
Proper Shipping Name (RID)	: Not applicable		
Transport document description (ADR)	: UN 1169 EXTRACTS, AROMATIC, LIQUID, 3, III, (D/E), ENVIRONMENTALLY HAZARDOUS		
14.3. Transport hazard class(es)			

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3 3

Transport hazard class(es) (ADR)	:
Danger labels (ADR)	:



IMDG

Transport hazard class(es) (IMDG)

: Not applicable



: Not applicable

:

ΙΑΤΑ

Transport hazard class(es) (IATA)

ADN

Transport hazard class(es) (ADN)



RID

•

Transport hazard class(es) (RID)

: Not applicable



14.4. Packing group	
Packing group (ADR)	: 111
Packing group (IMDG)	: Not applicable
Packing group (IATA)	: Not applicable
Packing group (ADN)	: Not applicable
Packing group (RID)	: Not applicable
14.5. Environmental hazards	
Dangerous for the environment	: Yes
Marine pollutant	: Yes
Other information	: No supplementary information available

Special precautions for user 14.6.

- Overland transport	
Classification code (ADR)	: F1
Special provisions (ADR)	: 601, 640E
Limited quantities (ADR)	: 51
Excepted quantities (ADR)	: E1
Packing instructions (ADR)	: P001, IBC03, LP01, R001
Mixed packing provisions (ADR)	: MP19

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Portable tank and bulk container instructions (ADR)	: T2
Portable tank and bulk container special provisions (ADR)	: TP1
Tank code (ADR)	: LGBF
Vehicle for tank carriage	: FL
Transport category (ADR)	: 3
Special provisions for carriage - Packages (ADR)	: V12
Special provisions for carriage - Operation (ADR)	: S2
Hazard identification number (Kemler No.)	: 30
Orange plates	:



: D/E

Tunnel restriction code (ADR)

- Transport by sea

No data available

- Air transport

No data available

- Inland waterway transport

No data available

- Rail transport

No data available

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

The following restrictions are applicable according to Annex Avii of the REACT Regulation (EC)	
3. Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008	ALPHA-PINENES - ALPHA-TERPINEOL - BETA-PINENES - NEROLIDOL ISOMERS - EUCALYPTOL - D-LIMONENE - MYRCENE - SABINENE - P-CYMENE - 4-TERPINEOL - CITRONELLOL - GERANIOL - LINALOOL - CITRAL - EUGENOL
3.a. Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F	YARROW MILFOIL OIL - ALPHA-PINENES - BETA-PINENES - EUCALYPTOL - D- LIMONENE - MYRCENE - SABINENE - P- CYMENE
3.b. Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10	YARROW MILFOIL OIL - ALPHA-PINENES - ALPHA-TERPINEOL - BETA-PINENES - NEROLIDOL ISOMERS - D-LIMONENE - MYRCENE - 4-TERPINEOL - CITRONELLOL - GERANIOL - LINALOOL - CITRAL - EUGENOL
3.c. Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1	YARROW MILFOIL OIL - ALPHA-PINENES - NEROLIDOL ISOMERS - D-LIMONENE - P- CYMENE - CITRONELLOL - EUGENOL
40. Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or not.	ALPHA-PINENES - BETA-PINENES - BORNEOL - CAMPHENE - CAMPHOR - EUCALYPTOL - D-LIMONENE - MYRCENE - SABINENE - P-CYMENE

YARROW MILFOIL OIL is not on the REACH Candidate List

Contains no substance on the REACH candidate list

YARROW MILFOIL OIL is not on the REACH Annex XIV List

Contains no REACH Annex XIV substances

15.1.2. National regulations

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according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Germany

VwVwS Annex reference	: Water hazard class (WGK) 2, hazard to waters (Classification according to VwVwS, Annex 3;ID No. 6378)
12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV	: Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Full text of H- and EUH-statements:

Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Asp. Tox. 1	Aspiration hazard, Category 1
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Sensitisation — Skin, Category 1
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H226	Flammable liquid and vapour
H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H332	Harmful if inhaled
H335	May cause respiratory irritation
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
H412	Harmful to aquatic life with long lasting effects

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product