





## Material Safety Data Sheet

EU Regulation: 1907/2006

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 PRODUCT IDENTIFICATION					
<b>PRODUCT NAME</b>	Essential oil - Laurel - Etherische olie - Laurier				
<b>BIOLOGICAL DEFINITION</b>	LAURUS NOBILIS OIL IS THE VOLATILE OIL OBTAINED FROM THE WHOLE PLANT OF THE LAUREL, LAURUS NOBILIS L., LAURACEAE.				
<b>INCI NAME</b>	LAURUS NOBILIS OIL.				
<b>SYNONYMS &amp; TRADE NAMES</b>	-				
<b>INTERNAL PRODUCT CODE</b>	SQ0150054 - EO037				
<b>CAS-No</b>	8002-41-3 / 8007-48-5 / 84603-73-6	<b>EC No.</b>	- / - / 283-272- 5	<b>EINECS No.</b>	- / - / 283-272-5
1.2 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET					
<b>COMPANY ADDRESS</b>	SoapQueen vof, Veilingdreef 20 4614RX Bergen op Zoom, Nederland				
1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET					
<b>EMERGENCY CONTACTS</b>	+31 (0)164 254900 - Office Hours: 09:00 - 17:00 (weekdays only)				

<b>SECTION 2: HAZARDS IDENTIFICATION</b>	
<b>2.1</b> <b>CLASSIFICATION OF THE SUBSTANCE OR MIXTURE</b>	THE FULL TEXT FOR ALL HAZARD STATEMENTS IS DISPLAYED IN SECTION 16.
<b>CLASSIFICATION (67/548/EEC)</b>	NO ADDITIONAL DATA AVAILABLE.
<b>CLASSIFICATION (EU1272/2008)</b>	ASPIRATION TOXICITY CATEGORY 1 - (H304) SKIN CORROSION/IRRITATION CATEGORY 2 - (H315) SERIOUS EYE DAMAGE/EYE IRRITATION CATEGORY 2 - (H319) SKIN SENSITIZATION CATEGORY 1B - (H317) GERM CELL MUTAGENICITY CATEGORY 2 - (H341) CARCINOGENICITY CATEGORY 2 - (H351) REPRODUCTIVE TOXICITY CATEGORY 2 - (H361) CHRONIC AQUATIC TOXICITY CATEGORY 2 - (H411) FLAMMABLE LIQUIDS CATEGORY 3 - (H226)
<b>2.2</b> <b>LABEL ELEMENTS</b>	LABEL IN ACCORDANCE WITH REGULATION (EC) No 1272/2008.
<b>GHS LABEL</b>	    GHS02                      GHS07                      GHS08                      GHS09
<b>SIGNAL WORD</b>	DANGER.
<b>CONTAINS</b>	D-LIMONENE, PARA-CYMENE, GAMMA-TERPINENE, ALPHA-PINENE
<b>HAZARDS STATEMENT</b>	H304 - MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS H315 - CAUSES SKIN IRRITATION H317 - MAY CAUSE AN ALLERGIC SKIN REACTION H319 - CAUSES SERIOUS EYE IRRITATION H341 - SUSPECTED OF CAUSING GENETIC DEFECTS H351 - SUSPECTED OF CAUSING CANCER H361 - SUSPECTED OF DAMAGING FERTILITY OR THE UNBORN CHILD H411 - TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS H226 - FLAMMABLE LIQUID AND VAPOR CONTAINS DELTA-3-CARENE, TERPINOLENE, CITRAL, NEROL EUH208 - CONTAINS ( . ? ). MAY PRODUCE AN ALLERGIC REACTION
<b>PRECAUTIONARY STATEMENTS</b>	P210 - KEEP AWAY FROM HEAT/SPARKS/OPEN FLAMES/HOT SURFACES. - NO SMOKING P280 - WEAR PROTECTIVE GLOVES/PROTECTIVE CLOTHING/EYE PROTECTION/FACE PROTECTION P202 - DO NOT HANDLE UNTIL ALL SAFETY PRECAUTIONS HAVE BEEN READ AND UNDERSTOOD P308 + P313 - IF EXPOSED OR CONCERNED: GET MEDICAL ADVICE/ATTENTION P263 - AVOID CONTACT DURING PREGNANCY/WHILE NURSING P301 + P310 - IF SWALLOWED: IMMEDIATELY CALL A POISON CENTER OR DOCTOR P331 - DO NOT INDUCE VOMITING P302 + P352 - IF ON SKIN: WASH WITH PLENTY OF SOAP AND WATER P333 + P313 - IF SKIN IRRITATION OR RASH OCCURS: GET MEDICAL ADVICE/ATTENTION P305 + P351 + P338 - IF IN EYES: RINSE CAUTIOUSLY WITH WATER FOR SEVERAL MINUTES. REMOVE CONTACT LENSES, IF PRESENT AND EASY TO DO. CONTINUE RINSING P337 + P313 - IF EYE IRRITATION PERSISTS: GET MEDICAL ADVICE/ATTENTION P273 - AVOID RELEASE TO THE ENVIRONMENT P501 - DISPOSE OF CONTENTS/CONTAINER IN ACCORDANCE WITH LOCAL, REGIONAL, NATIONAL, AND INTERNATIONAL REGULATIONS AS APPLICABLE
<b>SUPPLEMENTARY PRECAUTIONARY STATEMENTS</b>	H303 - MAY BE HARMFUL IF SWALLOWED H401 - TOXIC TO AQUATIC LIFE
SECTION 16 (OTHER INFORMATION): RISK & SAFETY PHRASES IN FULL.	
<b>2.3</b> <b>OTHER HAZARDS</b>	
<b>ADVERSE PHYSIO-CHEMICAL PROPERTIES</b>	NO DATA

<b>ADVERSE EFFECTS ON HUMAN HEALTH</b>	NO DATA
<b>PBT OR VPVB ACCORDING TO ANNEX XIII</b>	NO DATA

### SECTION 3: COMPOSITION OF INGREDIENTS

3.2 MIXTURES	<p><b>30.0 - 40.0% EUCALYPTOL</b> CAS-No.: 470-82-6 EC No.: 207-431-5  CLASSIFICATION (EC 1272/2008) SKIN IRRIT. 3 (H316), (EFFA) ACUTE TOX. 5, (H303)(EFFA) FLAM., LIQ. 3 (H226)(EFFA) SKIN SENS. 1B (H317) (EFFA)</p>
	<p><b>10.0 - 20.0% LINALOOL</b> CAS-No.: 78-70-6 EC No.: 201-134-4  CLASSIFICATION (EC 1272/2008) AQUATIC ACUTE 3, (H402) (EFFA) EYE, IRRIT. 2 (H319) (EFFA), SKIN IRRIT. 2 (H315), (EFFA) ACUTE TOX. 5, (H303)(EFFA) FLAM., LIQ. 4 (H227)(EFFA), SKIN SENS. 1B (H317) (EFFA)</p>
	<p><b>10.0 – 20.0% D-LIMONENE</b> CAS-No.: 5989-27-5 EC No.: 227-813-5  CLASSIFICATION (EC 1272/2008) FLAMMABLE LIQ. 3, (H226)(EFFA) SKIN, IRRIT. 2 (H315)(EFFA) SKIN SENS. 1B, (H317)(EFFA) ASP., TOX. 1 (H304)(EFFA), AQUATIC ACUTE 1, (H400)(EFFA) AQUATIC, CHRONIC 1, (H410)(EFFA)</p>
	<p><b>1 &lt; 10 % ALPHA-TERPINEOL</b> CAS-No.: 98-55-5 EC No.: -  CLASSIFICATION (EC 1272/2008) AQUATIC ACUTE 2, (H401) (EFFA) EYE, IRRIT. 2 (H319) (EFFA), SKIN IRRIT. 2 (H315) (EFFA) ACUTE TOX. 5, (H303)(EFFA) FLAM., LIQ. 4 (H227)(EFFA)</p>
	<p><b>1 &lt; 10% PARA-CYMENE</b> CAS-No.: 99-87-6 EC No.: 202-796-7  CLASSIFICATION (EC 1272/2008) REP TOX. 2 (H361), AQUATIC ACUTE 2, (H401), SKIN IRRIT. 3, (H316), AQUATIC, CHRONIC, 2 (H411), ASP. TOX. 1 (H304), ACUTE TOX. 5, (H303), FLAM. LIQ. 3, (H226)</p>
	<p><b>1 &lt; 10% GAMMA-TERPINENE</b> CAS-No.: 99-85-4 EC No.: 202-794-6  CLASSIFICATION (EC 1272/2008) REP 2 (H361), FLAM., LIQ. 3, ASPIR HAZ. 1, (H304), ACUTE TOX 5, (H303), SKIN IRRIT. 3 (H316)</p>
	<p><b>1 &lt; 10% ALPHA-PINENE</b> CAS-No.: 80-56-8 EC No.: 201-291-9  CLASSIFICATION (EC 1272/2008) ACUTE AQUATIC 1, (H400) (EFFA), CHRONIC AQUATIC 1, (H410) (EFFA) ACUTE, TOX. 4 (H302) (EFFA), SKIN SENS. 1B (H317), (EFFA) SKIN IRRIT. 2, (H315) (EFFA) ASP., TOX. 1 (H304) (EFFA), FLAM. LIQ. 3, (H226)(EFFA)</p>
	<p><b>1 &lt; 10% METHYL EUGENOL</b> CAS-No.: 93-15-2 EC No.: 202-223-0  CLASSIFICATION (EC 1272/2008) AQUATIC ACUTE 2, (H401) (EFFA) CARC. 2, (H351) (EFFA) MUTA., 2 (H341) (EFFA), ACUTE TOX. 4 (H302), (EFFA)</p>
	<p><b>1 &lt; 10% TERPINEN-4-OL</b> CAS-No.: 464-49-3 EC No.: 207-355-2 / 200-945-0  CLASSIFICATION (EC 1272/2008) AQUATIC ACUTE 3, (H402) (EFFA) EYE, IRRIT. 2 (H319) (EFFA) SKIN IRRIT. 2 (H315) (EFFA) ACUTE TOX. 4, (H302) (EFFA) ACUTE, TOX. 5 (H313)(EFFA), FLAM. LIQ. 4, (H227)(EFFA)</p>
<p><b>1 &lt; 10% CAMPHOR, D-</b> CAS-No.: 470-82-6 EC No.: 207-431-5  CLASSIFICATION (EC 1272/2008) STOT SE 2 (H371), AQUATIC ACUTE 2, (H401), FLAM. SOL 2, (H228), ACUTE TOX. 4, (H302), ACUTE TOX. 4, (H332), SKIN IRRIT. 2, (H315), EYE DAM. 1, (H318), AQUATIC, CHRONIC 2 (H411)</p>	
<p><b>1 &lt; 10% EUGENOL</b> CAS-No.: 97-53-0 EC No.: 202-589-1  CLASSIFICATION (EC 1272/2008) AQUATIC ACUTE 2, (H401) (EFFA) SKIN SENS. 1 (H317), (EFFA) EYE IRRIT. 2, (H319), (EFFA) SKIN, IRRIT. 3 (H316) (EFFA), ACUTE TOX. 5, (H303)(EFFA)</p>	

**1 < 10% ALPHA-TERPINENE** CAS-No.: 99-86-5 EC No.: 202-795-1  
CLASSIFICATION (EC 1272/2008) AQUATIC ACUTE 2, (H401) (EFFA) SKIN IRRIT. 3 (H316) (EFFA), AQUATIC CHRONIC 2, (H411) (EFFA) ASP., TOX. 1 (H304) (EFFA), ACUTE TOX. 4 (H302), (EFFA) FLAM. LIQ. 3, (H226)(EFFA)

**1 < 10% BETA-PINENE** CAS-No.: 127-91-3 EC No.: 204-872-5  
CLASSIFICATION (EC 1272/2008) ACUTE AQUATIC 1, (H400) (EFFA), CHRONIC AQUATIC 1, (H410) (EFFA) SKIN SENS. 1, (H317), (EFFA) SKIN IRRIT. 2, (H315) (EFFA) ASP. TOX. 1 (H304) (EFFA), FLAM. LIQ. 3 (H226)(EFFA)

**1 < 10% MYRCENE** CAS-No.: 123-35-3 EC No.: 204-622-5  
CLASSIFICATION (EC 1272/2008) EYE IRRIT. 2 (H319), (EFFA) SKIN IRRIT. 2, (H315) (EFFA) ASP. TOX. 1 (H304) (EFFA), FLAM. LIQUID 3 (H226), (EFFA) ACUTE AQUATIC 1 (H400) (EFFA), CHRONIC AQUATIC 2 (H411) (EFFA)

**0.1 < 1% SABINENE** CAS-No.: 3387-41-5 EC No.: -  
CLASSIFICATION (EC 1272/2008) ASPIRATION CAT 1, (H304), FLAM CAT 3, (H226), SKIN IRRIT. 2, (H315), SKIN SENSITIZATION 1B (H317), ACUTE AQUATIC CAT 1 (H400), CHRONIC AQUATIC CAT 1 (H410)

**0.1 < 1% DELTA-3-CARENE** CAS-No.: 13466-78-9 EC No.: 236-719-3  
CLASSIFICATION (EC 1272/2008) SKIN SENS. 1 (H317), (EFFA) SKIN IRRIT. 2, (H315) (EFFA) ASP. TOX. 1 (H304) (EFFA) ACUTE TOX. 5 (H303)(EFFA) FLAM. LIQ. 3 (H226)(EFFA) ACUTE AQUATIC 1 (H400)(EFFA) CHRONIC AQUATIC 1 (H410) (EFFA)

**0.1 < 1% TERPINOLENE** CAS-No.: 586-62-9 EC No.: 209-578-0  
CLASSIFICATION (EC 1272/2008) AQUATIC ACUTE 1 (H400) (EFFA) AQUATIC CHRONIC 1 (H410) (EFFA) ASP. TOX. 1 (H304) (EFFA) ACUTE TOX. 5 (H303)(EFFA) FLAM. LIQ. 4 (H227)(EFFA) SKIN IRRIT. 3 (H316) (EFFA) SKIN SENS. 1 (H317) (EFFA)

**0.1 < 1% CAMPHERE** CAS-No.: 79-92-5 EC No.: 201-234-8  
CLASSIFICATION (EC 1272/2008) AQUATIC ACUTE 1 (H400) (EFFA) EYE IRRIT. 2B (H320) (EFFA) AQUATIC CHRONIC 1 (H410) (EFFA) FLAM. SOL 2 (H228) (EFFA)

**0.1 < 1% CITRAL** CAS-No.: 5392-40-5 EC No.: 226-394-6  
CLASSIFICATION (EC 1272/2008) ACUTE TOX. 5 (H313) SKIN IRRIT. 2 (H315) EYE IRRIT. 2A (H319) SKIN SENS. 1 (H317) AQUATIC ACUTE (H401)

**0.1 < 1% NEROL** CAS-No.: 106-25-2 EC No.: 203-378-7  
CLASSIFICATION (EC 1272/2008) ACUTE TOX. 5 (H303) SKIN IRRIT. 2 (H315) EYE IRRIT. 2A (H319) SKIN SENS. 1B (H317) AQUATIC ACUTE 2 (H401)

**0.1 < 1% CIS-3-HEXENOL** CAS-No.: 928-96-1 EC No.: 213-192-8  
CLASSIFICATION (EC 1272/2008) FLAM. LIQ. 3 (H226)(EFFA) EYE IRR. 2 (H319) (EFFA)

**0.1 < 1% CITRONELLYL ACETATE** CAS-No.: 150-84-5 EC No.: 205-775-0  
CLASSIFICATION (EC 1272/2008) AQUATIC ACUTE 2 (H401) (EFFA) SKIN IRRIT. 2 (H315) (EFFA) AQUATIC CHRONIC 2 (H411) (EFFA)

**0.1 < 1% CITRONELLOL** CAS-No.: 106-22-9 EC No.: 203-375-0  
CLASSIFICATION (EC 1272/2008) ACUTE TOX. 5 (H303)(EFFA) ACUTE TOX. 5 (H313)(EFFA) SKIN IRRIT. 2 (H315)(EFFA) EYE IRRIT. 2 (H319)(EFFA) SKIN SENS. 1B (H317)(EFFA) AQUATIC ACUTE 2 (H401)(EFFA)

**0.1 < 1% GERANYL ACETATE** CAS-No.: 105-87-3 EC No.: 203-341-5  
CLASSIFICATION (EC 1272/2008) SKIN SENS. 1B (H317) SKIN IRRIT. 2 (H315) AQUATIC CHRONIC 3 (H412) AQUATIC ACUTE 2 (H401)

**0.1 < 1% TRANS BETA-OCIMENE** CAS-No.: 3779-61-1 EC No.: -  
CLASSIFICATION (EC 1272/2008) ACUTE TOX. 5 (H303) (EFFA) ASP. TOX. 1 (H304) (EFFA) SKIN IRRIT. 2 (H315) (EFFA) ACUTE AQUATIC 1 (H400) (EFFA) CHRONIC AQUATIC 2 (H411) (EFFA) FLAM. LIQ. 3 (H226) (EFFA)

**0.01 < 0.1% CARYOPHYLLENE** CAS-No.: 87-44-5 EC No.: 201-746-1  
CLASSIFICATION (EC 1272/2008) SKIN SENS. 1B (H317) (EFFA) ASP. TOX. 1 (H304) (EFFA) CHRONIC AQUATIC 4 (H413) (EFFA)

**0.01 < 0.1% LINALYL ACETATE** CAS-No.: 115-95-7 EC No.: 204-116-4  
CLASSIFICATION (EC 1272/2008) AQUATIC ACUTE 3 (H402) (EFFA) EYE IRRIT. 2 (H320) (EFFA) SKIN IRRIT. 2 (H315) (EFFA) FLAM. LIQ. 4 (H227)(EFFA) SKIN SENSITIZATION 1 (H317)(EFFA)

	<p><b>0.01 &lt; 0.1% BETA-PHELLANDRENE</b> CAS-No.: 555-10-2 EC No.: 209-081-9 CLASSIFICATION (EC 1272/2008) ASP. TOX. 1 (H304) (EFFA) FLAM. LIQ. 3 (H226) (EFFA)</p> <p><b>0.01 &lt; 0.1% LINALOOL OXIDE</b> CAS-No.: 1365-19-1 EC No.: 215-723-9 CLASSIFICATION (EC 1272/2008) EYE IRRIT. 2 (H319) (EFFA) SKIN IRRIT. 2 (H315) (EFFA) ACUTE TOX. 4 (H302) (EFFA) ACUTE TOX. 5 (H313)(EFFA) FLAM. LIQ. 4 (H227)(EFFA)</p> <p><b>0.01 &lt; 0.1% GERANIOL</b> CAS-No.: 106-24-1 EC No.: 203-377-1 CLASSIFICATION (EC 1272/2008) SKIN SENS. 1B (H317) SKIN IRRIT. 2 (H315) EYE DAM. 1 (H318) AQUATIC ACUTE 3 (H402) ACUTE TOX. 5 (ORAL)(H303)</p> <p><b>0.01 &lt; 0.1% CITRONELLAL</b> CAS-No.: 106-23-0 EC No.: 203-376-6 CLASSIFICATION (EC 1272/2008) FLAM. LIQ. 4 (H227)(EFFA) ACUTE TOX. 5 (H303)(EFFA) ACUTE TOX. 5 (H313)(EFFA) SKIN IRRIT. 2 (H315)(EFFA) EYE IRRIT. 2A (H319)(EFFA) SKIN SENS. 1B (H317)(EFFA) AQUATIC ACUTE 2 (H401)(EFFA)</p>
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<b>SECTION 4: FIRST AID MEASURES</b>	
<b>4.1</b>	
<b>DESCRIPTION OF FIRST AID MEASURES</b>	
<b>GENERAL INFORMATION</b>	ALWAYS REMOVE CONTAMINATED CLOTHING IMMEDIATELY.
<b>INHALATION</b>	GET MEDICAL ATTENTION IMMEDIATELY. REMOVE FROM EXPOSURE SITE TO FRESH AIR, KEEP AT REST, AND OBTAIN MEDICAL ATTENTION.
<b>INGESTION</b>	GET MEDICAL ATTENTION IMMEDIATELY. RINSE MOUTH WITH WATER AND OBTAIN MEDICAL ATTENTION.
<b>SKIN CONTACT</b>	REMOVE CONTAMINATED CLOTHES. WASH THOROUGHLY WITH SOAP AND WATER. CONTACT PHYSICIAN IF IRRITATION PERSISTS.
<b>EYE CONTACT</b>	FLUSH IMMEDIATELY WITH WATER FOR AT LEAST 15 MINUTES. CONTACT PHYSICIAN IF SYMPTOMS PERSIST.
<b>4.2</b> MOST IMPORTANT SYMPTOMS & EFFECTS (ACUTE & DELAYED)	NO DATA.
<b>4.3</b> INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION OR SPECIAL TREATMENT REQUIRED	NONE EXPECTED, SEE SECTION 4.1 FOR FURTHER INFORMATION.

<b>SECTION 5: FIRE FIGHTING MEASURES</b>	
<b>5.1</b> EXTINGUISHING MATERIAL	FOAM, CO2, DRY CHEMICAL POWDER.
<b>5.2</b> SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE	BURNING PRODUCES IRRITATING, TOXIC AND OBNOXIOUS FUMES
<b>5.3</b> ADVICE FOR FIRE-FIGHTERS	SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS: WEAR POSITIVE-PRESSURE SELF-CONTAINED BREATHING APPARATUS (SCBA) AND APPROPRIATE PROTECTIVE CLOTHING.

<b>SECTION 6: ACCIDENTAL RELEASE MEASURES</b>	
<b>6.1</b> PERSONAL PRECAUTIONS	ENSURE ADEQUATE VENTILATION OF THE WORKING AREA, EVACUATE PERSONNEL TO SAFE AREA, WEAR SUITABLE PROTECTIVE EQUIPMENT. NO SMOKING, SPARKS, FLAMES OR OTHER SOURCES OF IGNITION NEAR SPILLAGE. AVOID CONTACT WITH SKIN, EYES AND CLOTHING.
<b>6.2</b> ENVIRONMENTAL PRECAUTIONS	DO NOT DISCHARGE INTO DRAINS, WATER COURSES OR ONTO THE GROUND. DISPOSE OF IN LINE WITH LOCAL AUTHORITY GUIDELINES.
<b>6.3</b> METHODS & MATERIAL FOR CONTAINMENT AND CLEANING UP	REMOVE IGNITION SOURCES. PROVIDE ADEQUATE VENTILATION. AVOID EXCESSIVE INHALATION OF VAPOURS. CONTAIN SPILLAGE IMMEDIATELY BY USE OF SAND OR INERT POWDER. DISPOSE OF ACCORDING TO LOCAL REGULATIONS.
<b>6.4</b> REFERENCES TO OTHER SECTIONS	REFER & CONSIDER SECTION 8. REFER & CONSIDER SECTION 13.

*The attached information is considered to be correct at the time the client received this information. Please be aware that detail can change and we encourage clients to update their records with SoapQueen regularly. The information is not and should not be considered a guarantee or warranty, or a part of our contractual or other legal obligations. It is the responsibility of the client to ensure the safety of the final product containing this ingredient. Please carry out additional testing if necessary.*

## SECTION 7: HANDLING & STORAGE

### 7.1 PRECAUTIONS FOR SAFE-HANDLING

HANDLE IN ACCORDANCE WITH GOOD HYGIENE AND SAFETY PRACTICE. KEEP AWAY FROM HEAT, SPARKS, OPEN FLAMES AND HOT SURFACES. - NO SMOKING. USE PERSONAL PROTECTIVE EQUIPMENT AS REQUIRED. USE IN ACCORDANCE WITH GOOD MANUFACTURING AND INDUSTRIAL HYGIENE PRACTICES. USE IN AREAS WITH ADEQUATE VENTILATION DO NOT EAT, DRINK OR SMOKE WHEN USING THIS PRODUCT.

### 7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

KEEP THE PRODUCT CONTAINER TIGHTLY CLOSED, IN A DRY, VENTILATED AREA. KEEP AWAY FROM POTENTIAL SOURCES OF IGNITION AND PROTECTED FROM LIGHT. MAINTAIN LIMITED CONTACT WITH OXYGEN.

### 7.3 SPECIFIC END USE(S)

NO DATA.

## SECTION 8: EXPOSURE CONTROLS & PERSONAL PROTECTION

### 8.1 CONTROL PARAMETERS

Chemical Name	European Union	United Kingdom	France	Spain	Germany
d-Limonene 5989-27-5	-	-	TWA: 1000 mg/m <sup>3</sup> STEL: 1500 mg/m <sup>3</sup>	S* TWA: 30 ppm TWA: 168 mg/m <sup>3</sup>	TWA: 5 ppm TWA: 28 mg/m <sup>3</sup> Ceiling / Peak: 20 ppm mg/m <sup>3</sup> Skin
para-Cymene 99-87-6	-	-	TWA: 150 mg/m <sup>3</sup> TWA: 1000 mg/m <sup>3</sup> STEL: 1500 mg/m <sup>3</sup>	-	-
gamma-Terpinene 99-85-4	-	-	TWA: 1000 mg/m <sup>3</sup> STEL: 1500 mg/m <sup>3</sup>	-	-
alpha-Pinene 80-56-8	-	-	TWA: 1000 mg/m <sup>3</sup> STEL: 1500 mg/m <sup>3</sup>	TWA: 20 ppm TWA: 113 mg/m <sup>3</sup>	-
alpha-Terpinene 99-86-5	-	-	TWA: 1000 mg/m <sup>3</sup> STEL: 1500 mg/m <sup>3</sup>	-	-
beta-Pinene 127-91-3	-	-	TWA: 1000 mg/m <sup>3</sup> STEL: 1500 mg/m <sup>3</sup>	TWA: 20 ppm TWA: 113 mg/m <sup>3</sup>	-
Myrcene 123-35-3	-	-	TWA: 1000 mg/m <sup>3</sup> STEL: 1500 mg/m <sup>3</sup>	-	-
Sabinene 3387-41-5	-	-	TWA: 1000 mg/m <sup>3</sup> STEL: 1500 mg/m <sup>3</sup>	-	-
delta-3-Carene 13466-78-9	-	-	TWA: 1000 mg/m <sup>3</sup> STEL: 1500 mg/m <sup>3</sup>	TWA: 20 ppm TWA: 113 mg/m <sup>3</sup>	-
Terpinolene 586-62-9	-	-	TWA: 1000 mg/m <sup>3</sup> STEL: 1500 mg/m <sup>3</sup>	-	-
Camphene 79-92-5	-	-	TWA: 1000 mg/m <sup>3</sup> STEL: 1500 mg/m <sup>3</sup>	-	-
Citral 5392-40-5	-	-	-	S* TWA: 5 ppm	-
trans beta-Ocimene 3779-61-1	-	-	TWA: 1000 mg/m <sup>3</sup> STEL: 1500 mg/m <sup>3</sup>	-	-
beta-Phellandrene 555-10-2	-	-	TWA: 1000 mg/m <sup>3</sup> STEL: 1500 mg/m <sup>3</sup>	-	-
Chemical Name	Italy	Portugal	Netherlands	Finland	Denmark
d-Limonene 5989-27-5	-	-	-	TWA: 25 ppm TWA: 140 mg/m <sup>3</sup> STEL: 50 ppm STEL: 280 mg/m <sup>3</sup>	-
para-Cymene 99-87-6	-	-	-	-	TWA: 25 ppm TWA: 135 mg/m <sup>3</sup>
alpha-Pinene 80-56-8	-	TWA: 20 ppm	-	-	-
beta-Pinene 127-91-3	-	TWA: 20 ppm	-	-	-
delta-3-Carene 13466-78-9	-	TWA: 20 ppm	-	-	-
Chemical Name	Austria	Switzerland	Poland	Norway	Ireland
d-Limonene 5989-27-5	-	STEL: 14 ppm STEL: 80 mg/m <sup>3</sup> TWA: 7 ppm	-	TWA: 25 ppm TWA: 140 mg/m <sup>3</sup> STEL: 37.5 ppm	-

alpha-Pinene 80-56-8	-	TWA: 40 mg/m <sup>3</sup> Skin STEL: 40 ppm STEL: 224 mg/m <sup>3</sup> TWA: 20 ppm TWA: 112 mg/m <sup>3</sup>	-	STEL: 175 mg/m <sup>3</sup> TWA: 25 ppm TWA: 140 mg/m <sup>3</sup> Skin STEL: 37.5 ppm STEL: 175 mg/m <sup>3</sup>	-
beta-Pinene 127-91-3	-	STEL: 40 ppm STEL: 224 mg/m <sup>3</sup> TWA: 20 ppm TWA: 112 mg/m <sup>3</sup>	-	TWA: 25 ppm TWA: 140 mg/m <sup>3</sup> STEL: 37.5 ppm STEL: 175 mg/m <sup>3</sup>	-
Myrcene 123-35-3	-	-	-	TWA: 40 ppm TWA: 275 mg/m <sup>3</sup> STEL: 60 ppm STEL: 343.75 mg/m <sup>3</sup>	-
delta-3-Carene 13466-78-9	-	STEL: 40 ppm STEL: 224 mg/m <sup>3</sup> TWA: 20 ppm TWA: 112 mg/m <sup>3</sup>	-	TWA: 25 ppm TWA: 140 mg/m <sup>3</sup> STEL: 37.5 ppm STEL: 175 mg/m <sup>3</sup>	-
Camphene 79-92-5	-	STEL: 40 ppm STEL: 224 mg/m <sup>3</sup> TWA: 20 ppm TWA: 112 mg/m <sup>3</sup>	-	-	-
Citral 5392-40-5	-	-	STEL: 54 mg/m <sup>3</sup> TWA: 27 mg/m <sup>3</sup>	-	-

## 8.2 EXPOSURE CONTROLS



**EYE PROTECTION** WEAR PROTECTIVE GLOVES/EYE PROTECTION/FACE PROTECTION.

**HAND PROTECTION** WEAR PROTECTIVE GLOVES/EYE PROTECTION/FACE PROTECTION.

**RESPIRATORY EQUIPMENT** UNDER NORMAL CONDITIONS OF USE AND WHERE ADEQUATE VENTILATION IS AVAILABLE TO PREVENT BUILD UP OF EXCESSIVE VAPOUR, THIS MATERIAL SHOULD NOT REQUIRE SPECIAL ENGINEERING CONTROLS. HOWEVER, IN CONDITIONS OF HIGH OR PROLONGED USE, OR HIGH TEMPERATURE OR OTHER CONDITIONS WHICH INCREASE EXPOSURE, THE FOLLOWING ENGINEERING CONTROLS CAN BE USED TO MINIMISE EXPOSURE TO PERSONNEL: A) INCREASE VENTILATION OF THE AREA WITH LOCAL EXHAUST VENTILATION. B) PERSONNEL CAN USE AN APPROVED, APPROPRIATELY FITTED RESPIRATOR WITH ORGANIC VAPOUR CARTRIDGE OR CANISTERS AND PARTICULATE FILTERS. C) USE CLOSED SYSTEMS FOR TRANSFERRING AND PROCESSING THIS MATERIAL. ALSO REFER TO SECTIONS 2 AND 7.

**HYGIENE MEASURES** GOOD PERSONAL HYGIENE PRACTICES ARE ALWAYS ADVISABLE, ESPECIALLY WHEN WORKING WITH CHEMICALS / OILS.

**ENGINEERING MEASURES** NONE.

**SKIN PROTECTION** WEAR PROTECTIVE CLOTHING TO REDUCE THE RISK OF SKIN AND EYE CONTACT.

**PERSONAL PROTECTION** AVOID INHALATION OF THE PRODUCT. AVOID CONTACT WITH SKIN AND EYES.

**OTHER PROTECTION** WEAR SUITABLE PROTECTION TO AVOID CONTACT WITH SKIN AND EYES. DO NOT INHALE VAPOURS.

**PROCESS CONDITIONS** ENSURE AREA IS WELL VENTILATED. AVOID VAPOUR INHALATION. SAFETY SHOWER & EYE BATH.

**ENVIROMENTAL EXPOSURE CONTROLS** AVOID DISCHARGING INTO DRAINAGE WATER.

## SECTION 9: PHYSICAL & CHEMICAL PROPERTIES

### 9.1 PHYSICAL & CHEMICAL PROPERTIES

**APPEARANCE** LIQUID

**COLOUR** COLOURLESS – PALE/GREENISH YELLOW.

**ODOUR** CHARACTERISTIC

<b>RELATIVE DENSITY @ 25 °C</b>	0.9025 - 0.9265 @ 20°C
<b>FLASH POINT (°C)</b>	50°C
<b>REFRACTIVE INDEX @ 25 °C</b>	NO DATA
<b>SOLUBILITY IN WATER @ 20 °C</b>	INSOLUBLE IN WATER. SOLUBLE IN 10 VOLUMES OF 90% ETHYL ALCOHOL.
<b>9.2 OTHER INFORMATION</b>	NO DATA.
<b>SECTION 10: STABILITY &amp; REACTIVITY</b>	
<b>10.1 REACTIVITY</b>	PRESENTS NO SIGNIFICANT REACTIVITY HAZARDS, BY ITSELF OR IN CONTACT WITH WATER. STABLE UNDER NORMAL TEMPERATURE AND STORAGE CONDITIONS AND RECOMMENDED USE.
<b>10.2 CHEMICAL STABILITY</b>	STABLE UNDER SUGGESTED STORAGE CONDITIONS (<15°C).
<b>10.3 POSSIBILITY OF HAZARDOUS REACTIONS</b>	NOT EXPECTED UNDER NORMAL CONDITIONS OF USE.
<b>10.4 CONDITIONS TO AVOID</b>	HEATS, SPARKS AND FLAMES. STORAGE AT HIGH TEMPERATURES. DO NOT STORE ABOVE 15°C.
<b>10.5 INCOMPATIBLE MATERIALS</b>	P.V.C
<b>10.6 HAZARDOUS DECOMPOSITION PRODUCTS</b>	NONE UNDER NORMAL CONDITIONS OF USE.

<b>SECTION 11: TOXICOLOGICAL INFORMATION</b>	
<b>11.1 TOXICOLOGICAL EFFECTS</b>	
<b>ACUTE TOXICITY</b>	NO DATA.
<b>SKIN IRRITATION</b>	IRRITATING TO SKIN.
<b>EYE DAMAGE OR IRRITATION</b>	CAUSES SERIOUS EYE IRRITATION.
<b>RESPIRATORY OR SKIN SENSITIVITY</b>	MAY CAUSE SENSITISATION BY SKIN CONTACT.
<b>GERM CELL MUTAGENICITY</b>	SUSPECTED OF CAUSING GENETIC DEFECTS. CONTAINS A KNOWN OR SUSPECTED MUTAGEN. METHYL EUGENOL.
<b>CARCINOGENICITY</b>	SUSPECTED OF CAUSING CANCER. CONTAINS A KNOWN OR SUSPECTED CARCINOGEN.
<b>REPRODUCTIVE TOXICITY</b>	SUSPECTED OF DAMAGING FERTILITY OR THE UNBORN CHILD. CONTAINS A KNOWN OR SUSPECTED REPRODUCTIVE TOXIN. GAMMA-TERPINENE. PARA-CYMENE.
<b>STOT – SINGLE EXPOSURE</b>	NOT APPLICABLE.
<b>STOT – REPEATED EXPOSURE</b>	NOT APPLICABLE.
<b>ASPIRATION HAZARD</b>	MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS.
<b>OTHER INFORMATION</b>	NO DATA
<b>SECTION 12: ECOLOGICAL INFORMATION</b>	
<b>12.1 TOXICITY</b>	TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS.

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TABLE 14: Environmental toxicity of components of essential oils of the species in question


Chemical Name	Crustacea	Algae/aquatic plants	Fish
Eucalyptol	48hr EC50/LC50 - 100 mg/L (Daphnia magna)	72hr EC50 - 74 mg/L, EC10 or NOEC - 37 mg/L (Pseudokirchneriella subcapitata)	96 HR LC50 for freshwater fish - 57 mg/L (Oncorhynchus mykiss)
Linalool	48hr EC50 - 59mg/L (Daphnia magna)	96hr EC50 - 156.7 mg/L, EC10 or NOEC - 54.3 mg/L (Desmodesmus subspicatus)	96hr LC50 - 27.8mg/L (Salmo gairdneri)
d-Limonene	48hr EC50 - 0.4 mg/L (Daphnia magna)	96 hr NOEC - 4mg/L (Green algae)	96hr LC50 - 0.7mg/L (Pimephales promelas)
alpha-Terpineol	48hr EC50 - 73 mg/l (Daphnia magna)	72hr EC50 - 68mg/l	96hr LC50 - 62 to 80 mg/L (Danio rerio)
para-Cymene	72hr ErC50 - 4.03 mg/L, NOEC - 1.4 mg/L (Scenedesmus capricornutum)	48hr EC50 - 100 mg/L	96hr LC50 - 48 mg/L (Cyprinodon variegatus)
alpha-Pinene	41: 48 h Daphnia magna mg/L LC50		0:28: 96 h Pimephales promelas mg/L LC50 static
Eugenol	48hr EC50 - 1.13 mg/L (Daphnia magna) (OECD 202)	72hr ErC50 - 24 mg/L (Desmodesmus subspicatus) (OECD201)	96hr LC50 - 13 mg/L (Danio rerio) (OECD 203)
Camphene	48hr EC50/LC50 - 50 mg/L (Daphnia magna)	72hr EC50 - 30.31 mg/L, EC10 or NOEC - 10 mg/L (Pseudokirchneriella subpicata)	96hr LC50 - 50 mg/L (Danio rerio)
Citral	7: 48 h Daphnia magna mg/L EC50		4.6 - 10: 96 h Leuciscus idus mg/L LC50 static
cis-3-Hexenol	48hr EC50 - >100 mg/L (Daphnia)	72hr EC50 - 76 mg/L (Pseudokirchneriella subcapitata)	96hr LC50 - 381 mg/L (Pimephales promelas)

<b>12.2</b> PERSISTENCE & DEGRADABILITY	NO DATA
<b>12.3</b> BIO- ACCUMULATIVE POTENTIAL	NO DATA.
<b>12.4</b> MOBILITY IN SOIL	NO DATA
<b>12.5</b> RESULTS OF PBT & VPVB ASSESSMENT	NO DATA
<b>12.6</b> OTHER ADVERSE EFFECTS	DO NOT ALLOW PRODUCT TO ENTER STREAMS, SEWERS OR OTHER WATERWAYS.

<b>SECTION 13: DISPOSAL INFORMATION</b>	
<b>13.1</b> WASTE TREATMENT METHODS	ALWAYS RECOVER SPILLED PRODUCT. DISCARD WASTE MATERIAL WITH AUTHORIZED WASTE MANAGEMENT SERVICES. ACT IN ACCORDANCE WITH LOCAL & NATIONAL WASTE REGULATIONS.

<b>SECTION 14: TRANSPORT INFORMATION</b>	
<b>14.1</b> TRANSPORT INFORMATION	
<b>UN NUMBER</b>	<b>ROAD: 1169</b> <b>RAIL: 1169</b> <b>AIR: 1169</b>
<b>14.2</b> UN SHIPPING NAME	UN 1169 EXTRACTS, AROMATIC, LIQUID (SAGE OIL)
<b>14.3</b> TRANSPORT HAZARD CLASS(ES)	ADR/RID/ADN CLASS: 3: (F1) FLAMMABLE LIQUIDS 9 MISCELLANEOUS DANGEROUS SUBSTANCES AND ARTICLES. IMDG CLASS: 3: FLAMMABLE LIQUIDS ICAO CLASS/DIVISION: 3: FLAMMABLE LIQUIDS  TRANSPORT LABELS  
<b>14.4</b>	ADR/RID/ADN PACKING GROUP III

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<b>PACKING GROUP</b>	IMDG PACKING GROUP III ICAO PACKING GROUP III PASSENGER INSTRUCTIONS CARGO 310 PACKAGING INSTRUCTIONS PASSENGER 309															
<b>14.5 ENVIROMENTAL HAZARDS</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE/MARINE POLLUTANT 															
<b>14.6 SPECIAL PRECAUTIONS FOR USER</b>	NO DATA.															
<b>14.7 TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL73/78 &amp; THE IBC CODE.</b>	NO ADDITIONAL DATA.															
<b>SECTION 15: REGULATORY INFORMATION</b>																
<b>15.1 PRODUCT SPECIFIC SAFETY, HEALTH &amp; ENVIRONMENTAL REGULATIONS &amp; LEGISLATION</b>																
<b>EU DIRECTIVES</b>	REGULATION (EC) NO 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL OF 18 <sup>TH</sup> DECEMBER 2006. CONCERNING THE REGISTRATION, EVALUATION, AUTHORIZATION & RESTRICTION OF CHEMICALS (REACH), ESTABLISHING A EUROPEAN CHEMICALS AGENCY, AMENDING DIRECTIVE 1999/45/EC AND REPEALING COUNCIL REGULATION (EEC) NO793/93 & COMMISSION REGULATION (EC) NO1488/94 AS WELL AS COUNCIL DIRECTIVE 76/769/EEC & COMMISSION DIRECTIVE 91/155/ECC, 93/67/ECC, 93/105/EEC & 2000/21/EC (INCLUDING AMENDMENTS).															
<b>STATUTORY INSTRUMENTS</b>	THE CHEMICALS (HAZARD INFORMATION & PACKAGING FOR SUPPLY REGULATIONS 2009 (S.I.2009 NO 716).															
<b>APPROVED CODE OF PRACTICE</b>	CLASSIFICATION & LABELLING OF SUBSTANCES & PREPARATIONS DANGEROUS FOR SUPPLY. SAFETY DATA SHEETS FOR SUBSTANCES & PREPARATIONS.															
<b>GUIDANCE NOTES</b>	WORKPLACE EXPOSURE LIMITS EH40. CHIP FOR EVERYONE HSG 108.															
<b>15.2 CHEMICAL SAFETY ASSESSMENT</b>	<table border="1"> <thead> <tr> <th>CHEMICAL NAME</th> <th>FRENCH RG NUMBER</th> <th>TITLE</th> </tr> </thead> <tbody> <tr> <td>LIMONENE</td> <td>RG 84</td> <td>-</td> </tr> <tr> <td>5989-27-5</td> <td></td> <td></td> </tr> <tr> <td>L-LIMONENE</td> <td>RG 84</td> <td>-</td> </tr> <tr> <td>5989-54-8.</td> <td></td> <td></td> </tr> </tbody> </table>	CHEMICAL NAME	FRENCH RG NUMBER	TITLE	LIMONENE	RG 84	-	5989-27-5			L-LIMONENE	RG 84	-	5989-54-8.		
CHEMICAL NAME	FRENCH RG NUMBER	TITLE														
LIMONENE	RG 84	-														
5989-27-5																
L-LIMONENE	RG 84	-														
5989-54-8.																

<b>SECTION 16: OTHER INFORMATION</b>	
HAZARD AND/ OR PRECAUTIONARY STATEMENTS IN FULL	H226 - FLAMMABLE LIQUID AND VAPOR H227 - COMBUSTIBLE LIQUID H228 - FLAMMABLE SOLID H302 - HARMFUL IF SWALLOWED H303 - MAY BE HARMFUL IF SWALLOWED H304 - MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS H313 - MAY BE HARMFUL IN CONTACT WITH SKIN H315 - CAUSES SKIN IRRITATION H316 - CAUSES MILD SKIN IRRITATION H317 - MAY CAUSE AN ALLERGIC SKIN REACTION H318 - CAUSES SERIOUS EYE DAMAGE H319 - CAUSES SERIOUS EYE IRRITATION H320 - CAUSES EYE IRRITATION

	H332 - HARMFUL IF INHALED H341 - SUSPECTED OF CAUSING GENETIC DEFECTS H351 - SUSPECTED OF CAUSING CANCER H361 - SUSPECTED OF DAMAGING FERTILITY OR THE UNBORN CHILD H371 - MAY CAUSE DAMAGE TO ORGANS H400 - VERY TOXIC TO AQUATIC LIFE H401 - TOXIC TO AQUATIC LIFE H402 - HARMFUL 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
<b>TRAINING INSTRUCTIONS: REFER TO POSSIBLE HAZARD BEFORE USE OF THIS PRODUCT.</b>	
<b>ABBREVIATIONS &amp; ACRONYMS:</b>	
<b>MSDS</b>	MATERIAL SAFETY DATA SHEET.
<b>INCI</b>	INTERNATIONAL NOMENCLATURE OF COSMETIC INGREDIENTS.
<b>CAS</b>	CHEMICAL ABSTRACT SERVICE.
<b>IMDG</b>	INTERNATIONAL MARITIME CODE FOR DANGEROUS GOODS.
<b>ADR</b>	ACCORD EUROPEAN SUR LE TRANSPORT DES MARCHANDISES DANGEREUSES PAR ROUTE (EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY ROAD).
<b>RID</b>	INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY RAIL.
<b>ICAO</b>	INTERNATIONAL CIVIL AVIATION ORGANIZATION.
<b>ADN</b>	INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY INLAND WATERWAYS.
<b>GHS</b>	GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION & LABELLING OF CHEMICALS.
<b>TREM CARD</b>	TRANSPORT EMERGENCY CARD.
<b>STOT</b>	SPECIFIC TARGET ORGAN TOXICITY.

## DOCUMENTATION REVISION

DATE	CHANGE DESCRIPTION
10 <sup>TH</sup> APRIL 2018	DATA LAUNCH
2021	REVIEW