Material Safety Data Sheet

EU Regulation: 2020/878

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING					
1.1 **PRODUCT IDENTIFICATION**					
PRODUCT NAME	ROSEMARY (CAMPHOR), ESSENTIAL OIL				
INCI NAME	ROSMARINUS OFFICINALIS LEAF OIL				
SYNONYMS & TRADE NAMES	-				
INTERNAL PRODUCT CODE	K0396				
CAS-NO	84604-14-8 / 8000-25-7	EC NO.	283-291-9	EINECS NO.	283-291-9
1.2 **DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET**					
COMPANY ADDRESS	YouWish Venserweg 21M, 1112 AR Diemen, The Netherlands				
EMAIL	contact@youwish.nl				
1.3 **DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET**					
EMERGENCY CONTACTS	+31 6 83295085				

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SECTION 2: HAZARDS IDENTIFICATION

2.1 **CLASSIFICATION OF THE SUBSTANCE OR MIXTURE**	THE FULL TEXT FOR ALL HAZARD STATEMENTS IS DISPLAYED IN SECTION 16.
CLASSIFICATION (67/548/EEC)	THE FULL TEXT FOR ALL R-PHRASES AND HAZARD STATEMENTS ARE DISPLAYED IN SECTION 16.
CLASSIFICATION (EU1272/2008)	ASPIRATION HAZARD CATEGORY 1 - (H304) ACUTE TOXICITY - INHALATION (VAPORS) CATEGORY 4 - (H332) ACUTE TOXICITY - INHALATION (DUSTS/MISTS) CATEGORY 4 - (H332) SKIN CORROSION/IRRITATION CATEGORY 2 - (H315) SERIOUS EYE DAMAGE/EYE IRRITATION CATEGORY 1 - (H318) SKIN SENSITIZATION CATEGORY 1B - (H317) SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) CATEGORY 2 ACUTE AQUATIC TOXICITY CATEGORY 1 - (H400) FLAMMABLE LIQUIDS CATEGORY 3 - (H226)
2.2 **LABEL ELEMENTS**	LABEL IN ACCORDANCE WITH REGULATION (EC) NO 1272/2008.
GHS LABEL	GHS02 GHS05 GHS07 GHS08 GHS09
SIGNAL WORD	DANGER.
CONTAINS	L-LIMONENE, ALPHA-PINENE, CAMPHOR, D-, BETA-PINENE
HAZARDS STATEMENT	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 H332 - HARMFUL IF INHALED H371 - MAY CAUSE DAMAGE TO ORGANS H400 - VERY TOXIC TO AQUATIC LIFE H226 - FLAMMABLE LIQUID AND VAPOR EUH208 - CONTAINS EUCALYPTOL, CARYOPHYLLENE, PARA-CYMENE, MYRCENE, TERPINOLENE, LINALOOL MAY PRODUCE AN ALLERGIC REACTION.
PRECAUTIONARY STATEMENTS	P280 - WEAR PROTECTIVE GLOVES/PROTECTIVE CLOTHING/EYE PROTECTION/FACE PROTECTION P210 - KEEP AWAY FROM HEAT, HOT SURFACES, SPARKS, OPEN FLAMES AND OTHER IGNITION SOURCES. NO SMOKING P260 - DO NOT BREATHE DUST/FUME/GAS/MIST/VAPORS/SPRAY P273 - AVOID RELEASE TO THE ENVIRONMENT P305 + P351 + P338 - IF IN EYES: RINSE CAUTIOUSLY WITH WATER FOR SEVERAL MINUTES. REMOVE CONTACT LENSES, IF PRESENT AND EASY TO DO. CONTINUE RINSING P310 - IMMEDIATELY CALL A POISON CENTER OR DOCTOR P331 - DO NOT INDUCE VOMITING P370 + P378 - IN CASE OF FIRE: USE DRY CHEMICAL, CO2, WATER SPRAY OR ALCOHOL-RESISTANT FOAM TO EXTINGUISH P102 - KEEP OUT OF REACH OF CHILDREN P308 + P313 - IF EXPOSED OR CONCERNED: GET MEDICAL ADVICE/ATTENTION P391 - COLLECT SPILLAGE P403 + P235 - STORE IN A WELL-VENTILATED PLACE. KEEP COOL P501 - DISPOSE OF CONTENTS/CONTAINERS IN ACCORDANCE WITH LOCAL REGULATIONS
SUPPLEMENTARY PRECAUTIONARY STATEMENTS	P264 WASH HANDS AND EXPOSED SKIN THOROUGHLY AFTER HANDLING. P403+P235 STORE IN A WELL-VENTILATED PLACE. KEEP COOL.
SECTION 16 (OTHER INFORMATION): RISK & SAFETY PHRASES IN FULL.	
2.3 **OTHER HAZARDS**	
ADVERSE PHYSIO-CHEMICAL PROPERTIES	TOXIC TO AQUATIC LIFE.
ADVERSE EFFECTS ON HUMAN HEALTH	NO ADDITIONAL DATA AVAILABLE.
PBT OR VPVB ACCORDING TO ANNEX XIII	NO ADDITIONAL DATA AVAILABLE.

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SECTION 3: COMPOSITION OF INGREDIENTS

3.2 SUBSTANCE

Chemical name	Weight-%	REACH registration number	EC No (EU Index No)	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)
Eucalyptol 470-82-6	40 - <50	No data available	Present	Skin Irrit. 3 (H316) (EFFA) Acute Tox. 5 (H303)(EFFA) Flam. Liq. 3 (H226)(EFFA) Skin Sens. 1B (H317) (EFFA)	-	-	-
l-Limonene 5989-54-8	10 - <20	No data available	Present	Flam. Liq. 3 (H226) Skin Irrit. 2 (H315) Skin Sens. 1B (H317) Asp. Tox. 1 (H304) Aquatic Acute 1 (H400) Aquatic Chronic 3 (H412)	-	-	-
alpha-Pinene 80-56-8	10 - <20	No data available	Present	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)	-	-	-
Camphor, d- 464-49-3	10 - <20	No data available	Present	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)	-	-	-
beta-Pinene 127-91-3	1 - <10	No data available	Present	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)	-	-	-
Camphene 79-92-5	1 - <10	No data available	Present	Aquatic Acute 1 (H400) (EFFA) Eye Irrit. 2B (H320) (EFFA) Aquatic Chronic 1 (H410) (EFFA) Flam. Sol 2 (H228) (EFFA)	-	-	-
Borneol	1 - <10	No data available	Present	Acute Aquatic 2	-	-	-

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507-70-0				(H401), Flam. Sol 1 (H228), Aquatic Chronic 2 (H411), Skin Irrit. 2 (H315), Acute Tox. 5 (H303)			
Caryophyllene 87-44-5	1 - <10	No data available	Present	Skin Sens. 1B (H317) (EFFA) Asp. Tox. 1 (H304) (EFFA) Chronic Aquatic 4 (H413) (EFFA)	-	-	-
para-Cymene 99-87-6	1 - <10	No data available	Present	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)	-	-	-
Myrcene 123-35-3	1 - <10	No data available	Present	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)	-	-	-
alpha-Terpineol 98-55-5	1 - <10	No data available	Present	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)	-	-	-
gamma-Terpinene 99-85-4	0.1 - <1	No data available	Present	Rep 2 (H361), Flam. Liq. 3, Aspir Haz. 1 (H304), Acute Tox 5 (H303), Skin Irrit. 3 (H316)	-	-	-
Linalool 78-70-6	0.1 - <1	No data available	Present	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)	-	-	-
alpha-Phellandrene 99-83-2	0.1 - <1	No data available	Present	Flam. Liq. 3 (H226) Asp. Tox. 1 (H304) Aquatic Chronic 1 (H410) Aquatic Acute 1 (H400)	-	-	-
Terpinolene 586-62-9	0.1 - <1	No data available	Present	Aquatic Acute 1 (H400) (EFFA) 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)			

SECTION 4: FIRST AID MEASURES

4.1 DESCRIPTION OF FIRST AID MEASURES	
GENERAL INFORMATION	ALWAYS REMOVE CONTAMINATED CLOTHING IMMEDIATELY.
INHALATION	REMOVE TO FRESH AIR. ASPIRATION INTO LUNGS CAN PRODUCE SEVERE LUNG DAMAGE. IF BREATHING HAS STOPPED, GIVE ARTIFICIAL RESPIRATION. GET MEDICAL ATTENTION IMMEDIATELY. AVOID DIRECT CONTACT WITH SKIN. USE BARRIER TO GIVE MOUTH-TO-MOUTH RESUSCITATION. IF BREATHING IS DIFFICULT, (TRAINED PERSONNEL SHOULD) GIVE OXYGEN. GET IMMEDIATE MEDICAL ATTENTION. DELAYED PULMONARY
INGESTION	RINSE MOUTH. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. DO NOT INDUCE

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	VOMITING. ASPIRATION HAZARD IF SWALLOWED - CAN ENTER LUNGS AND CAUSE DAMAGE. IF VOMITING OCCURS SPONTANEOUSLY, KEEP HEAD BELOW HIPS TO PREVENT ASPIRATION. GET IMMEDIATE MEDICAL ATTENTION.
SKIN CONTACT	WASH OFF IMMEDIATELY WITH SOAP AND PLENTY OF WATER WHILE REMOVING ALL CONTAMINATED CLOTHES AND SHOES. MAY CAUSE AN ALLERGIC SKIN REACTION. IF SYMPTOMS PERSIST, CALL A PHYSICIAN.
EYE CONTACT	RINSE IMMEDIATELY WITH PLENTY OF WATER, ALSO UNDER THE EYELIDS, FOR AT LEAST 15 MINUTES. KEEP EYE WIDE OPEN WHILE RINSING. DO NOT RUB AFFECTED AREA. GET IMMEDIATE MEDICAL ATTENTION. REMOVE CONTACT LENSES, IF PRESENT AND EASY TO
4.2 **MOST IMPORTANT SYMPTOMS & EFFECTS (ACUTE & DELAYED)**	BURNING SENSATION. ITCHING. RASHES. HIVES. DIFFICULTY IN BREATHING. COUGHING AND/ OR WHEEZING. DIZZINESS.
4.3 **INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION OR SPECIAL TREATMENT REQUIRED**	MAY CAUSE SENSITIZATION IN SUSCEPTIBLE PERSONS. TREAT SYMPTOMATICALLY. BECAUSE OF THE DANGER OF ASPIRATION, EMESIS OR GASTRIC LAVAGE SHOULD NOT BE EMPLOYED UNLESS THE RISK IS JUSTIFIED BY THE PRESENCE OF ADDITIONAL TOXIC SUBSTANCES.

SECTION 5: FIRE FIGHTING MEASURES

5.1 **EXTINGUISHING MATERIAL**	FOAM, CO2, DRY CHEMICAL POWDER.
5.2 **SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE**	**SPECIFIC HAZARDS ARISING FROM THE CHEMICAL:** RISK OF IGNITION. KEEP PRODUCT AND EMPTY CONTAINER AWAY FROM HEAT AND SOURCES OF IGNITION. IN THE EVENT OF FIRE, COOL TANKS WITH WATER SPRAY. FIRE RESIDUES AND CONTAMINATED FIRE EXTINGUISHING WATER MUST BE DISPOSED OF IN ACCORDANCE WITH LOCAL REGULATIONS. PRODUCT IS OR CONTAINS A SENSITIZER. MAY CAUSE SENSITIZATION BY SKIN CONTACT. **HAZARDOUS COMBUSTION PRODUCTS:** IRRITATING OR TOXIC SUBSTANCES MAY BE EMITTED UPON BURNING, COMBUSTION, OR DECOMPOSITION.
5.3 **ADVICE FOR FIRE-FIGHTERS**	SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS: WEAR POSITIVE-PRESSURE SELF-CONTAINED BREATHING APPARATUS (SCBA) AND APPROPRIATE PROTECTIVE CLOTHING.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 **PERSONAL PRECAUTIONS**	EVACUATE PERSONNEL TO SAFE AREAS. USE PERSONAL PROTECTIVE EQUIPMENT AS REQUIRED. SEE SECTION 8 FOR MORE INFORMATION. AVOID CONTACT WITH SKIN, EYES OR CLOTHING. ENSURE ADEQUATE VENTILATION. KEEP PEOPLE AWAY FROM AND UPWIND OF SPILL/LEAK. ELIMINATE ALL IGNITION SOURCES (NO SMOKING, FLARES, SPARKS OR FLAMES IN IMMEDIATE AREA). PAY ATTENTION TO FLASHBACK. TAKE PRECAUTIONARY MEASURES AGAINST STATIC DISCHARGES. ALL EQUIPMENT USED WHEN HANDLING THE PRODUCT MUST BE GROUNDED. DO NOT TOUCH OR WALK THROUGH SPILLED MATERIAL. AVOID BREATHING VAPORS OR MISTS.
6.2 **ENVIRONMENTAL PRECAUTIONS**	DO NOT DISCHARGE INTO DRAINS, WATER COURSES OR ONTO THE GROUND. DISPOSE OF IN LINE WITH LOCAL AUTHORITY GUIDELINES.
6.3 **METHODS & MATERIAL FOR CONTAINMENT AND CLEANING UP**	**METHODS FOR CONTAINMENT** STOP LEAK IF YOU CAN DO IT WITHOUT RISK. DO NOT TOUCH OR WALK THROUGH SPILLED MATERIAL. A VAPOR SUPPRESSING FOAM MAY BE USED TO REDUCE VAPORS. DIKE FAR AHEAD OF SPILL TO COLLECT RUNOFF WATER. KEEP OUT OF DRAINS, SEWERS, DITCHES AND WATERWAYS. ABSORB WITH EARTH, SAND OR OTHER NON-COMBUSTIBLE MATERIAL AND TRANSFER TO CONTAINERS FOR LATER DISPOSAL. **METHODS FOR CLEANING UP** TAKE PRECAUTIONARY MEASURES AGAINST STATIC DISCHARGES. DAM UP. SOAK UP WITH INERT ABSORBENT MATERIAL. PICK UP AND TRANSFER TO PROPERLY LABELED CONTAINERS. **PREVENTION OF SECONDARY HAZARDS** CLEAN CONTAMINATED OBJECTS AND AREAS THOROUGHLY OBSERVING ENVIRONMENTAL REGULATIONS
6.4 **REFERENCES TO OTHER SECTIONS**	REFER & CONSIDER SECTIONS 8 & 13.

SECTION 7: HANDLING & STORAGE

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7.1 **Precautions for safe-handling**	**Advice on safe handling** Use personal protection equipment. Avoid breathing vapors or mists. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use grounding and bonding connection when transferring this material to prevent static discharge, fire or explosion. Use with local exhaust ventilation. Use spark-proof tools and explosion-proof equipment. Keep in an area equipped with sprinklers. Use according to package label instructions. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. In case of insufficient ventilation, wear suitable respiratory equipment. Take off contaminated clothing and wash before reuse. **General hygiene considerations** Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection.
7.2 **Conditions for safe storage, including any incompatibilities**	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labeled containers. Do not store near combustible materials. Keep in an area equipped with sprinklers. Store in accordance with the particular national regulations. Store in accordance with local regulations. Store locked up. Keep out of the reach of children. Store away from other materials.
7.3 **Specific end use(s)**	Industry Use.

SECTION 8: Exposure Controls & Personal Protection

8.1
Control Parameters

Chemical name	Cyprus	Czech Republic	Denmark	Estonia	Finland
alpha-Pinene 80-56-8	-	-	-	STEL: 50 ppm STEL: 300 mg/m³ TWA: 25 ppm TWA: 150 mg/m³	-
beta-Pinene 127-91-3	-	-	-	STEL: 50 ppm STEL: 300 mg/m³ TWA: 25 ppm TWA: 150 mg/m³	-
para-Cymene 99-87-6	-	-	TWA: 25 ppm TWA: 135 mg/m³	STEL: 35 ppm STEL: 190 mg/m³ TWA: 25 ppm TWA: 140 mg/m³	-
Myrcene 123-35-3	-	-	-	STEL: 500 mg/m³ TWA: 350 mg/m³	-

Chemical name	France	Germany TRGS	Germany DFG	Greece	Hungary
l-Limonene 5989-54-8	TWA: 1000 mg/m³ STEL: 1500 mg/m³	-	-	-	-
alpha-Pinene 80-56-8	TWA: 1000 mg/m³ STEL: 1500 mg/m³	-	-	-	-
beta-Pinene 127-91-3	TWA: 1000 mg/m³ STEL: 1500 mg/m³	-	-	-	-
Camphene 79-92-5	TWA: 1000 mg/m³ STEL: 1500 mg/m³	-	-	-	-

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para-Cymene 99-87-6	TWA: 150 mg/m³ TWA: 1000 mg/m³ STEL: 1500 mg/m³	-	-	-	-
Myrcene 123-35-3	TWA: 1000 mg/m³ STEL: 1500 mg/m³	-	-	-	-
gamma-Terpinene 99-85-4	TWA: 1000 mg/m³ STEL: 1500 mg/m³	-	-	-	-
alpha-Phellandrene 99-83-2	TWA: 1000 mg/m³ STEL: 1500 mg/m³	-	-	-	-
Terpinolene 586-62-9	TWA: 1000 mg/m³ STEL: 1500 mg/m³	-	-	-	-
Chemical name	Ireland	Italy MDLPS	Italy AIDII	Latvia	Lithuania
para-Cymene 99-87-6	-	-	-	TWA: 10 mg/m³	-
Chemical name	Luxembourg	Malta	Netherlands	Norway	Poland
l-Limonene 5989-54-8	-	-	-	TWA: 25 ppm TWA: 140 mg/m³ STEL: 37.5 ppm STEL: 175 mg/m³	-
alpha-Pinene 80-56-8	-	-	-	TWA: 25 ppm TWA: 140 mg/m³ Skin STEL: 37.5 ppm STEL: 175 mg/m³	-
beta-Pinene 127-91-3	-	-	-	TWA: 25 ppm TWA: 140 mg/m³ STEL: 37.5 ppm STEL: 175 mg/m³	-
Myrcene 123-35-3	-	-	-	TWA: 40 ppm TWA: 275 mg/m³ STEL: 60 ppm STEL: 343.75 mg/m³	-
Chemical name	Portugal	Romania	Slovakia	Slovenia	Spain
alpha-Pinene 80-56-8	TWA: 20 ppm	-	-	-	TWA: 20 ppm TWA: 113 mg/m³
beta-Pinene 127-91-3	TWA: 20 ppm	-	-	-	TWA: 20 ppm TWA: 113 mg/m³
Myrcene 123-35-3	-	TWA: 700 mg/m³ STEL: 1000 mg/m³	-	-	-

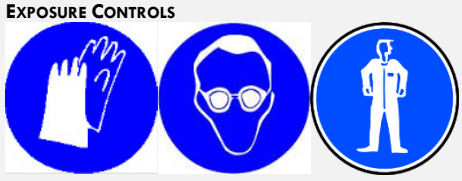
Chemical name	Sweden	Switzerland	United Kingdom
alpha-Pinene 80-56-8	-	Skin STEL: 40 ppm STEL: 224 mg/m³ TWA: 20 ppm TWA: 112 mg/m³	-
beta-Pinene 127-91-3	-	Skin STEL: 40 ppm STEL: 224 mg/m³ TWA: 20 ppm TWA: 112 mg/m³	-
Camphene 79-92-5	-	Skin STEL: 40 ppm STEL: 224 mg/m³ TWA: 20 ppm TWA: 112 mg/m³	-

BIOLOGICAL OCCUPATIONAL EXPOSURE LIMITS

THIS PRODUCT, AS SUPPLIED, DOES NOT CONTAIN ANY HAZARDOUS MATERIALS WITH BIOLOGICAL LIMITS ESTABLISHED BY THE REGION SPECIFIC

8.2

EXPOSURE CONTROLS



EYE PROTECTION	WEAR PROTECTIVE GLOVES/EYE PROTECTION/FACE PROTECTION.
HAND PROTECTION	WEAR PROTECTIVE GLOVES/EYE PROTECTION/FACE PROTECTION.
RESPIRATORY EQUIPMENT	USUALLY NOT REQUIRED IN A WELL-VENTILATED AREA. IN CONFINED OR POORLY VENTILATED AREA APPROVED RESPIRATORY MASKS MAY BE REQUIRED.
HYGIENE MEASURES	GOOD PERSONAL HYGIENE PRACTICES ARE ALWAYS ADVISABLE, ESPECIALLY WHEN WORKING WITH CHEMICALS / OILS.
ENGINEERING MEASURES	PROVIDE ADEQUATE VENTILATION OR RESPIRATORY PROTECTION.
SKIN PROTECTION	WEAR PROTECTIVE CLOTHING TO REDUCE THE RISK OF SKIN AND EYE CONTACT.

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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. Only eliminate by authorised companies.

SECTION 9: Physical & Chemical Properties

9.1 **Physical & Chemical Properties**	
Appearance	Clear
Colour	Colourless – Pale Yellow
Odour	Characteristic
Relative Density	Approx 0.900 @ 20°C
Flash Point (°C)	47°C
Refractive Index @ 20 °C	Approx 1.466 @ 20°C
Solubility in water @ 20 °C	Insoluble in water
9.2 **Other Information**	No Data

SECTION 10: Stability & Reactivity

10.1 **Reactivity**	No hazardous reactions if stored and handled as prescribed / indicated.
10.2 **Chemical stability**	Stable under the recommended handling and storage conditions in section 7.
10.3 **Possibility of hazardous reactions**	Not expected under normal conditions of use.
10.4 **Conditions to avoid**	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Prevent storing the product in open containers for long periods to prevent product deterioration.
10.5 **Incompatible materials**	Avoid contact with strong acids, alkalis or oxidising agents.
10.6 **Hazardous decomposition products**	This product does not decompose under normal conditions. Under fire conditions the product will produce a mixture of irritating fumes & smoke & carbon monoxide.

SECTION 11: Toxicological Information

11.1 **Toxicological effects**	

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Acute Toxicity	**The following values are calculated based on chapter 3.1 of the GHS document** **ATEmix (oral)** 2,640.50 mg/kg **ATEmix (inhalation-dust/mist)** 1.97 mg/l **ATEmix (inhalation-vapor)** 14.50 mg/l **Unknown acute toxicity** 86.713 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor). 86.713 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist). **Component Information** Chemical name / Oral LD50 / Dermal LD50 / Inhalation LC50 Eucalyptol / = 2480 mg/kg (Rat) / - / - l-Limonene / Memo / >5,000 mg/kg / - alpha-Pinene / 500mg/kg (Rat) / > 5000 mg/kg (Rat) / - Camphor, d- / 1,500 mg/kg / - / - beta-Pinene / = 4700 mg/kg (Rat) > 5000 mg/kg (Rat) / > 5000 mg/kg (Rabbit) / - Camphene / > 5 g/kg (Rat) / > 2500 mg/kg (Rabbit) / = 17100 mg/m³ (Rat) 1 h para-Cymene / 4,750 mg/kg (Rat) / >5,000 mg/kg (Rabbit) / >9.7 mg/L (Rat) 5hr Myrcene / > 5 g/kg (Rat) / > 5 g/kg (Rabbit) / - alpha-Terpineol / 4,300 mg/kg, >4,760.00 mg/kg (REACh) / >2,000 mg/kg / >2,000 mg/kg gamma-Terpinene / 3,850 mg/kg (Rat) / - / - Linalool / = 2790 mg/kg (Rat) / = 2000 mg/kg (Rabbit) = 5610 mg/kg (Rat) / >20mg/L alpha-Phellandrene / = 5700 mg/kg (Rat) / - / - Terpinolene / 3,775mg/kg / - / - **Delayed and immediate effects as well as chronic effects from short and long-term exposure**
Skin irritation	Specific test data for the substance or mixture is not available. May cause sensitization by skin contact. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. (based on components). Repeated exposure may cause skin dryness or cracking. Causes skin irritation.
Eye damage or irritation	void contact with eyes. Specific test data for the substance or mixture is not available. Causes serious eye damage. May cause irreversible damage to eyes.
Respiratory or skin sensitivity	May cause an allergic skin reaction.
Germ cell mutagenicity	Not Classified.
Carcinogenicity	Not Classified.
Reproductive toxicity	This product does not contain any known or suspected reproductive hazards above the threshold value. The table below indicates ingredients above the cut-off threshold considered as relevant which are listed as reproductive toxins. Chemical name / European Union para-Cymene / Rep. 2 gamma-Terpinene / Rep. 2
STOT – single exposure	Central nervous system. oral. Kidney. Based on the classification criteria of the Globally Harmonized System as adopted in the country or region with which this safety data sheet complies, this product has been determined to cause systemic target organ toxicity from acute exposure. (STOT SE). May cause damage to organs.
STOT – repeated exposure	No Data.
Aspiration hazard	May be fatal if swallowed and enters airways.
Other information	No Data.

SECTION 12: Ecological Information

12.1 **Toxicity**	Very toxic to aquatic life with long lasting effects.

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Unknown aquatic toxicity Contains 0.0083 % of components with unknown hazards to the aquatic environment.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Eucalyptol	-	96 HR LC50 for freshwater fish - 57 mg/L (Oncorhynchus mykiss)	-	48hr EC50/LC50 - 100 mg/L (Daphnia magna)
l-Limonene	-	96hr LC50 - 0.71 mg/L (Pimephales promelas)	-	48hr LC50/LC50 - 0.36 mg/L (Daphnia magna)
alpha-Pinene	-	0.28: 96 h Pimephales promelas mg/L LC50 static	-	41: 48 h Daphnia magna mg/L LC50
Camphene	1000: 72 h Desmodesmus subspicatus mg/L EC50	96hr LC50 - 50 mg/L (Danio rerio)	-	48hr EC50/LC50 - 50 mg/L (Daphnia magna)
para-Cymene	-	96hr LC50 - 48 mg/L (Cyprinodon variegatus)	-	72hr ErC50 - 4.03 mg/L, NOErC - 1.4 mg/L (Scenedesmus capricornutum)
alpha-Terpineol	-	96hr LC50 - 62 to 80 mg/L (Danio rerio)	-	48hr EC50 - 73 mg/l (Daphnia magna)
Linalool	88.3: 96 h Desmodesmus subspicatus mg/L EC50	96hr LC50 - 27.8mg/L (Salmo gairdneri)	-	48hr EC50 - 59mg/L (Daphnia magna)

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

SECTION 13: DISPOSAL INFORMATION

13.1 **WASTE TREATMENT METHODS**	PROPER WASTE MANAGEMENT OF THE MATERIAL AND/OR ITS CONTAINER MUST BE DETERMINED IN ACCORDANCE WITH DIRECTIVE 2008/98/EC. WASTE TREATMENT METHODS. DO NOT POUR INTO DRAINS OR WATERWAYS. WASTE: WASTE MANAGEMENT IS CARRIED OUT WITHOUT ENDANGERING HUMAN HEALTH, WITHOUT HARMING THE ENVIRONMENT AND, IN PARTICULAR WITHOUT RISK TO WATER, AIR, SOIL, PLANTS OR ANIMALS. RECYCLE OR DISPOSE OF WASTE IN COMPLIANCE WITH CURRENT LEGISLATION, PREFERABLY VIA A CERTIFIED COLLECTOR OR COMPANY. DO NOT CONTAMINATE THE GROUND OR WATER WITH WASTE, DO NOT DISPOSE OF WASTE INTO THE ENVIRONMENT. SOILED PACKAGING: EMPTY CONTAINER COMPLETELY. KEEP LABEL(S) ON CONTAINER. GIVE TO A CERTIFIED DISPOSAL CONTRACTOR.

SECTION 14: TRANSPORT INFORMATION

14.1 **TRANSPORT INFORMATION**	
UN NUMBER	ROAD: 1169 RAIL: 1169 AIR: 1169
14.2 UN SHIPPING NAME	EXTRACTS, AROMATIC, LIQUID
14.3 **TRANSPORT HAZARD CLASS(ES)**	**RID** *14.1 UN/ID no 1169* *14.2 UN proper shipping name Extracts, Aromatic, Liquid* *14.3 Transport hazard class(es) 3* *14.4 Packing group III* *14.5 Environmental hazard Yes* *14.6 Special precautions for user* *Special Provisions None*

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	ADR 14.1 UN number or ID number 1169 14.2 UN proper shipping name Extracts, Aromatic, Liquid 14.3 Transport hazard class(es) 3 14.4 Packing group III 14.5 Environmental hazard Yes 14.6 Special precautions for user Special Provisions None Classification code F1 Tunnel restriction code (D/E) **IMDG** 14.1 UN number or ID number 1169 14.2 UN proper shipping name Extracts, Aromatic, Liquid 14.3 Transport hazard class(es) 3 14.4 Packing group III 14.5 Environmental hazard Yes 14.6 Special precautions for user Special Provisions 223, 955 EmS-No F-E, S-D 14.7 Maritime transport in bulk according to IMO instruments IBC03 **ICAO/IATA** 14.1 UN number or ID number 1169 14.2 UN proper shipping name Extracts, Aromatic, Liquid 14.3 Transport hazard class(es) 3 14.4 Packing group III 14.5 Environmental hazard Yes 14.6 Special precautions for user Special Provisions None ERG Code 3L Transport Labels
14.4 **Packing Group**	ADR/RID/ADN Packing group III IMDG Packing group III ICAO Packing group III
14.5 **Enviromental Hazards**	Environmentally Hazardous Substance/Marine Pollutant.
14.6 **Special precautions for user**	**See sections 6 – 8.**
14.7 **Transport in bulk according to Annex II of MARPOL73/78 & the IBC code.**	Not applicable.

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SECTION 15: REGULATORY INFORMATION

15.1
PRODUCT SPECIFIC SAFETY, HEALTH & ENVIRONMENTAL REGULATIONS & LEGISLATION

EU DIRECTIVES

REGULATION (EC) NO 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL OF 18TH 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).

STATUTORY INSTRUMENTS

THE CHEMICALS (HAZARD INFORMATION & PACKAGING FOR SUPPLY REGULATIONS 2009 (S.I.2009 NO 716).

APPROVED CODE OF PRACTICE

CLASSIFICATION & LABELLING OF SUBSTANCES & PREPARATIONS DANGEROUS FOR SUPPLY. SAFETY DATA SHEETS FOR SUBSTANCES & PREPARATIONS.

GUIDANCE NOTES

WORKPLACE EXPOSURE LIMITS EH40. CHIP FOR EVERYONE HSG 108.

NATIONAL REGULATIONS

OZONE-DEPLETING SUBSTANCES (ODS) REGULATION (EC) 1005/2009

NOT APPLICABLE

National regulations

France
Occupational Illnesses (R-463-3, France)

Chemical name	French RG number
l-Limonene 5989-54-8	RG 84

Germany
Water hazard class (WGK) obviously hazardous to water (WGK 2)

European Union
Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Authorizations and/or restrictions on use:
This product does not contain substances subject to authorization (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

Persistent Organic Pollutants
Not applicable

Dangerous substance category per Seveso Directive (2012/18/EU)
P5a - FLAMMABLE LIQUIDS
P5b - FLAMMABLE LIQUIDS
P5c - FLAMMABLE LIQUIDS
E1 - Hazardous to the Aquatic Environment in Category Acute 1 or Chronic 1

15.2
CHEMICAL SAFETY ASSESSMENT

-

SECTION 16: OTHER INFORMATION

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
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

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	H332 - Harmful if inhaled 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 H413 - May cause long lasting harmful effects to aquatic life
Training Instructions: Refer to possible hazard before use of this product.	
Abbreviations & Acronyms:	
MSDS	Material Safety Data Sheet.
INCI	International Nomenclature of Cosmetic Ingredients.
CAS	Chemical Abstract Service.
IMDG	International Maritime code for Dangerous Goods.
ADR	Accord European sur le transport des merchandises Dangereuses par Route (European Agreement concerning the international Carriage of Dangerous goods by Road).
RID	International Carriage of Dangerous Goods by Rail.
ICAO	International Civil Aviation Organization.
ADN	International Carriage of Dangerous Goods by Inland Waterways.
GHS	Globally Harmonized System of classification & labelling of chemicals.
Trem Card	Transport Emergency Card.
STOT	Specific Target Organ Toxicity.

Documentation Revision

Date	Change Description
2021	Data Launch
2021	Review
December 2022	Review

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