

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	TEA TREE, ESSENTIAL OIL				
BIOLOGICAL DEFINITION	MELALEUCA ALTERNIFOLIA LEAF OIL IS THE OIL DISTILLED FROM THE LEAVES OF THE TEA TREE, MELALEUCA ALTERNIFOLIA, MYRTACEAE.				
INCI NAME	MELALEUCA ALTERNIFOLIA LEAF OIL				
SYNONYMS & TRADE NAMES	TEA TREE OIL				
CAS-No	85085-48-9 / 68647-73-4 / 8022-72-8	EC No.	285-377-1	EINECS No.	285-377-1
1.2 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET					
COMPANY ADDRESS	MOV HERBS				
EMAIL	TECHNICALCREW@MOVHERBS.COM				
1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET					
EMERGENCY CONTACTS					

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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)	NO ADDITIONAL DATA AVAILABLE.
CLASSIFICATION (EU1272/2008)	ASPIRATION HAZARD CATEGORY 1 - (H304) ACUTE TOXICITY - ORAL CATEGORY 4 - (H302) SKIN CORROSION/IRRITATION CATEGORY 2 - (H315) SERIOUS EYE DAMAGE/EYE IRRITATION CATEGORY 2 - (H319) SKIN SENSITIZATION CATEGORY 1B - (H317) REPRODUCTIVE TOXICITY CATEGORY 2 - (H361) SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) CATEGORY 3 - (H336) CHRONIC AQUATIC TOXICITY CATEGORY 2 - (H411) FLAMMABLE LIQUIDS CATEGORY 3 - (H226)
2.2 LABEL ELEMENTS	LABEL IN ACCORDANCE WITH REGULATION (EC) NO 1272/2008.
GHS LABEL	
SIGNAL WORD	DANGER.
CONTAINS	TERPINEN-4-OL, TERPINENE GAMMA, TERPINENE ALPHA, PINENE ALPHA
HAZARDS STATEMENT	H302 - HARMFUL IF SWALLOWED 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 H336 - MAY CAUSE DROWSINESS OR DIZZINESS H361 - SUSPECTED OF DAMAGING FERTILITY OR THE UNBORN CHILD H411 - TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS H226 - FLAMMABLE LIQUID AND VAPOR EUH208 - CONTAINS CYMENE PARA, TERPINOLENE, LIMONENE D, EUCALYPTOL, PINENE BETA MAY PRODUCE AN ALLERGIC REACTION.
PRECAUTIONARY STATEMENTS	P210 - KEEP AWAY FROM HEAT, HOT SURFACES, SPARKS, OPEN FLAMES AND OTHER IGNITION SOURCES. NO SMOKING P370 + P378 - IN CASE OF FIRE: USE DRY CHEMICAL, CO2, WATER SPRAY OR ALCOHOL-RESISTANT FOAM TO EXTINGUISH P202 - DO NOT HANDLE UNTIL ALL SAFETY PRECAUTIONS HAVE BEEN READ AND UNDERSTOOD P280 - WEAR PROTECTIVE GLOVES/PROTECTIVE CLOTHING/EYE PROTECTION/FACE PROTECTION P301 + P310 - IF SWALLOWED: IMMEDIATELY CALL A POISON CENTER OR DOCTOR/PHYSICIAN 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 P304 + P340 - IF INHALED: REMOVE VICTIM TO FRESH AIR AND KEEP AT REST IN A POSITION COMFORTABLE FOR BREATHING P263 - AVOID CONTACT DURING PREGNANCY/WHILE NURSING P308 + P313 - IF EXPOSED OR CONCERNED: 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
OTHER HAZARDS	H401 - TOXIC TO AQUATIC LIFE.
SECTION 16 (OTHER INFORMATION): RISK & SAFETY PHRASES IN FULL.	
2.3 OTHER HAZARDS	

ADVERSE PHYSIO-CHEMICAL PROPERTIES	NO DATA
ADVERSE EFFECTS ON HUMAN HEALTH	NO DATA
PBT OR vPvB ACCORDING TO ANNEX XIII	NO DATA

SECTION 3: COMPOSITION OF INGREDIENTS

3.1 SUBSTANCES

40 - <50% TERPINEN-4-OL CAS No: 562-74-3 EC No: 209-235-5
CLASSIFICATION (EC 1272/2008) FLAM. LIQ. 4 (H227) ACUTE TOX. 4 (H302) ACUTE TOX. 5 (H313) SKIN IRRIT. 2 (H315) EYE IRRIT. 2B (H320) ACUTE TOX. 4 (H332) STOT SE 3 (H336) AQUATIC ACUTE
20 - <30% GAMMA-TERPINENE (P-MENTHA-1,4-DIENE) CAS No: 99-85-4 EC No: 202-794-6
CLASSIFICATION (EC 1272/2008) REPR. 2 (H361) FLAM. LIQ. 3 (H226) ASP. TOX. 1 (H304) ACUTE TOX. 5 (H303) AQUATIC ACUTE 2 (H401) AQUATIC CHRONIC 2 (H411)
10 - <20% ALPHA-TERPINENE CAS No: 99-86-5 EC No: 202-795-1
CLASSIFICATION (EC 1272/2008) FLAM. LIQ. 3 (H226) ACUTE TOX. 4 (H302) ASP. TOX. 1 (H304) SKIN IRRIT. 3 (H316) SKIN SENS. 1 (H317) AQUATIC ACUTE 2 (H401) AQUATIC CHRONIC 2 (H411)
1 - <10% ALPHA-TERPINEOL CAS No: 98-55-5
CLASSIFICATION (EC 1272/2008) FLAM. LIQ. 4 (H227) ACUTE TOX. 5 (H303) SKIN IRRIT. 2 (H315) EYE IRRIT. 2A (H319) AQUATIC ACUTE 2 (H401)
1 - <10% ALPHA-PINENE CAS No: 80-56-8
CLASSIFICATION (EC 1272/2008) FLAM. LIQ. 3 (H226) ACUTE TOX. 4 (H302) SKIN IRRIT. 2 (H315) SKIN SENS. 1B (H317) ASP. TOX. 1 (H304) AQUATIC ACUTE 1 (H400) AQUATIC CHRONIC 1 (H410)
1 - <10% D-LIMONENE CAS No: 5989-27-5
CLASSIFICATION (EC 1272/2008) FLAM. LIQ. 3 (H226) SKIN IRRIT. 2 (H315) SKIN SENS. 1B (H317) ASP. TOX. 1 (H304) AQUATIC ACUTE 1 (H400) AQUATIC CHRONIC 3 (H412)
1 - <10% TERPINOLENE CAS No: 586-62-9
CLASSIFICATION (EC 1272/2008) FLAM. LIQ. 4 (H227) ACUTE TOX. 5 (H303) ASP. TOX. 1 (H304) SKIN IRRIT. 3 (H316) SKIN SENS. 1B (H317) AQUATIC ACUTE 1 (H400) AQUATIC CHRONIC 1 (H410)
1 - <10% PARA-CYMENE CAS No: 99-87-6
CLASSIFICATION (EC 1272/2008) FLAM. LIQ. 3 (H226) ASP. TOX. 1 (H304) SKIN IRR. 2 (H315) EYE IRR. 2A (H319) ACUTE TOX. 3 (H331) STOT SE 3 (H335) REPR. 2 (H361) AQUATIC CHRONIC 2 (H411)
1 - <10% EUCALYPTOL CAS No: 470-82-6
CLASSIFICATION (EC 1272/2008) FLAM. LIQ. 3 (H226) ACUTE TOX. 5 (H303) SKIN SENS. 1B (H317) EYE IRRIT. 2B (H320) AQUATIC ACUTE 3 (H402)
0.1 - <1% BETA-PINENE CAS No: 127-91-3
CLASSIFICATION (EC 1272/2008) FLAM. LIQ. 3 (H226) SKIN IRRIT. 2 (H315) SKIN SENS. 1B (H317) ASP. TOX. 1 (H304) AQUATIC ACUTE 1 (H400) AQUATIC CHRONIC 1 (H410)
0.1 - <1% ALPHA-PHELLANDRENE CAS No: 99-83-2
CLASSIFICATION (EC 1272/2008) FLAM. LIQ. 3 (H226) ASP. TOX. 1 (H304) AQUATIC ACUTE 1 (H400) AQUATIC CHRONIC 1 (H410)
0.01 - <1% MYRCENE CAS No: 123-35-3
CLASSIFICATION (EC 1272/2008) FLAM. LIQ. 3 (H226) SKIN IRRIT. 2 (H315) EYE IRRIT. 2A (H319) ASP. TOX. 1 (H304) AQUATIC ACUTE 1 (H400) AQUATIC CHRONIC 2 (H411)

SECTION 4: FIRST AID MEASURES

4.1 DESCRIPTION OF FIRST AID MEASURES	
GENERAL INFORMATION	ALWAYS REMOVE CONTAMINATED CLOTHING IMMEDIATELY.
INHALATION	MOVE TO FRESH AIR IN CASE OF ACCIDENTAL INHALATION OF VAPORS. IF SYMPTOMS PERSIST, CALL A PHYSICIAN.
INGESTION	RINSE MOUTH. DRINK 1 OR 2 GLASSES OF WATER. CALL A PHYSICIAN OR POISON CONTROL CENTER IMMEDIATELY. DO NOT INDUCE VOMITING.
SKIN CONTACT	REMOVE CONTAMINATED CLOTHING AND SHOES. WASH OFF IMMEDIATELY WITH SOAP AND PLENTY OF WATER. WASH CONTAMINATED CLOTHING BEFORE REUSE. CONSULT A PHYSICIAN IF NECESSARY.
EYE CONTACT	RINSE IMMEDIATELY WITH PLENTY OF WATER, ALSO UNDER THE EYELIDS, FOR AT LEAST 15 MINUTES. REMOVE CONTACT LENSES, IF PRESENT AND EASY TO DO. CONTINUE RINSING. IF EYE IRRITATION PERSISTS: GET MEDICAL ADVICE/ATTENTION.
4.2 MOST IMPORTANT SYMPTOMS & EFFECTS (ACUTE & DELAYED)	REDNESS / RASH ON SKIN. DROWSINESS. DIZZINESS.
4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION OR SPECIAL TREATMENT REQUIRED	TREAT SYMPTOMATICALLY.

SECTION 5: FIRE FIGHTING MEASURES

5.1 EXTINGUISHING MATERIAL	USE DRY CHEMICAL CARBON DIOXIDE (CO2) WATER SPRAY (FOG) ALCOHOL RESISTANT FOAM UNSUITABLE EXTINGUISHING MEDIA <i>DO NOT USE A SOLID WATER STREAM AS IT MAY SCATTER AND SPREAD FIRE</i>
5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE	FLAMMABLE KEEP PRODUCT AND EMPTY CONTAINER AWAY FROM HEAT AND SOURCES OF IGNITION RISK OF IGNITION HAZARDOUS COMBUSTION PRODUCTS: IRRITATING OR TOXIC SUBSTANCES MAY BE EMITTED UPON BURNING, COMBUSTION, OR DECOMPOSITION
5.3 ADVICE FOR FIRE-FIGHTERS	WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE SUIT. USE PERSONAL PROTECTIVE EQUIPMENT AS REQUIRED.

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: COVER LIQUID SPILL WITH SAND, EARTH OR OTHER NON-COMBUSTIBLE ABSORBENT MATERIAL. SWEEP UP AND SHOVEL INTO SUITABLE CONTAINERS FOR DISPOSAL. DAM UP. SOAK UP WITH INERT ABSORBENT MATERIAL. PICK UP AND TRANSFER TO PROPERLY LABELED CONTAINERS. TAKE PRECAUTIONARY MEASURES AGAINST STATIC DISCHARGES. PREVENTION OF SECONDARY HAZARDS: CLEAN CONTAMINATED OBJECTS AND AREAS THOROUGHLY OBSERVING ENVIRONMENTAL REGULATIONS.
6.4 REFERENCES TO OTHER SECTIONS	REFER & CONSIDER SECTION 8. REFER & CONSIDER SECTION 13.

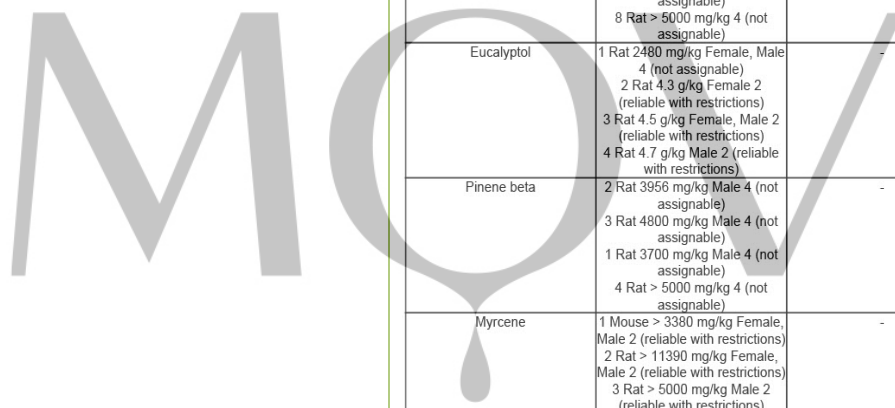
SECTION 7: HANDLING & STORAGE

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 AWAY FROM HEAT, SPARKS, FLAME AND OTHER SOURCES OF IGNITION (I.E., PILOT LIGHTS, ELECTRIC MOTORS AND STATIC ELECTRICITY). PROTECT FROM DIRECT SUNLIGHT. KEEP CONTAINER TIGHTLY CLOSED IN A DRY AND WELL-VENTILATED PLACE. KEEP CONTAINERS TIGHTLY CLOSED IN A COOL, WELL-VENTILATED PLACE. KEEP AWAY FROM HEAT. KEEP IN PROPERLY LABELED CONTAINERS.
7.3 SPECIFIC END USE(S)	NO DATA.
SECTION 8: EXPOSURE CONTROLS & PERSONAL PROTECTION	
8.1 CONTROL PARAMETERS	
8.2 EXPOSURE CONTROLS 	
EYE PROTECTION	WEAR PROTECTIVE GLOVES/EYE PROTECTION/FACE PROTECTION.
HAND PROTECTION	WEAR PROTECTIVE GLOVES/EYE PROTECTION/FACE PROTECTION.
RESPIRATORY EQUIPMENT	<p>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.</p>
HYGIENE MEASURES	<p>GOOD PERSONAL HYGIENE PRACTICES ARE ALWAYS ADVISABLE, ESPECIALLY WHEN WORKING WITH CHEMICALS / OILS. DO NOT EAT, DRINK OR SMOKE WHEN USING THIS PRODUCT. CONTAMINATED WORK. REGULAR CLEANING OF EQUIPMENT, WORK AREA AND CLOTHING IS RECOMMENDED. WASH HANDS BEFORE BREAKS AND IMMEDIATELY AFTER HANDLING THE PRODUCT. WEAR SUITABLE GLOVES AND EYE/FACE PROTECTION. AVOID CONTACT WITH SKIN, EYES OR CLOTHING.</p>
ENGINEERING MEASURES	PROVIDE ADEQUATE VENTILATION.
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. ONLY ELIMINATE BY AUTHORISED COMPANIES.
SECTION 9: PHYSICAL & CHEMICAL PROPERTIES	
9.1 PHYSICAL & CHEMICAL PROPERTIES	
APPEARANCE	LIQUID

COLOUR	COLOURLESS TO PALE YELLOW.
ODOUR	CHARACTERISTIC.
RELATIVE DENSITY	0.882 – 0.903 @ 20°C
FLASH POINT (°C)	56°C
SOLUBILITY IN WATER @ 20 °C	NO DATA.
9.2 OTHER INFORMATION	VOC CONTENT 9.721
9.2.1 INFORMATION WITH REGARD TO PHYSICAL HAZARD CLASSES	NO DATA.
9.2.2 OTHER SAFETY CHARACTERISTICS	NO DATA.
SECTION 10: STABILITY & REACTIVITY	
10.1 REACTIVITY	NO DATA
10.2 CHEMICAL STABILITY	STABLE UNDER SUGGESTED STORAGE CONDITIONS. EXPLOSION DATA: SENSITIVITY TO MECHANICAL IMPACT: NONE. SENSITIVITY TO STATIC DISCHARGE: YES.
10.3 POSSIBILITY OF HAZARDOUS REACTIONS	NONE UNDER NORMAL PROCESSING.
10.4 CONDITIONS TO AVOID	EXTREMES OF TEMPERATURE AND DIRECT SUNLIGHT. HEAT, FLAMES AND SPARKS. KEEP OUT OF REACH OF CHILDREN.
10.5 INCOMPATIBLE MATERIALS	STRONG ACIDS. STRONG BASES. STRONG OXIDIZING AGENTS
10.6 HAZARDOUS DECOMPOSITION PRODUCTS	NONE KNOWN BASED ON INFORMATION SUPPLIED.

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SECTION 11: TOXICOLOGICAL INFORMATION											
11.1 TOXICOLOGICAL EFFECTS											
ACUTE TOXICITY	<p>Unknown acute toxicity 94.53 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor). 56.587 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist).</p> <p>Oral LD50 1,900 mg/kg</p> <p>Component Information</p> <table border="1"> <thead> <tr> <th>Chemical name</th> <th>Oral LD50</th> <th>Dermal LD50</th> <th>Inhalation LC50</th> </tr> </thead> <tbody> <tr> <td>Terpineol alpha</td> <td>1 Rat > 2000 mg/kg Female,</td> <td>-</td> <td>-</td> </tr> </tbody> </table>			Chemical name	Oral LD50	Dermal LD50	Inhalation LC50	Terpineol alpha	1 Rat > 2000 mg/kg Female,	-	-
Chemical name	Oral LD50	Dermal LD50	Inhalation LC50								
Terpineol alpha	1 Rat > 2000 mg/kg Female,	-	-								



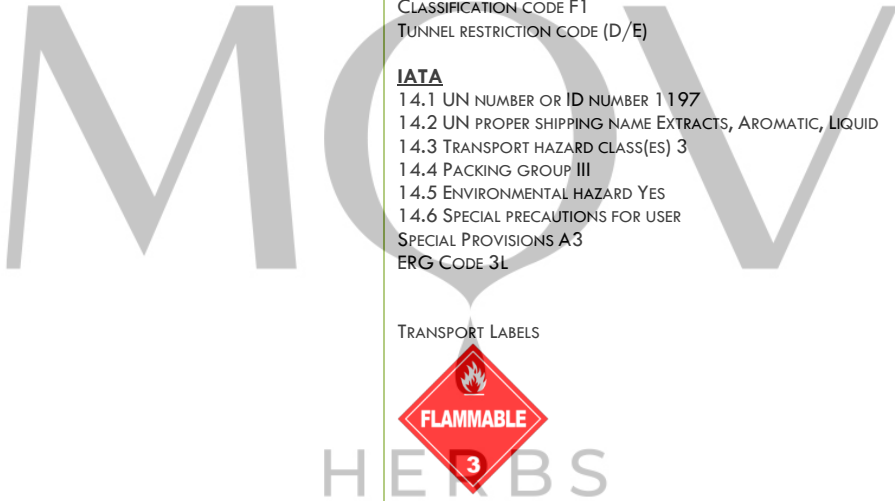
	Male 2 (reliable with restrictions) 2 Rat > 2000 mg/kg Male 2 (reliable with restrictions) 1 Mouse 2830 mg/kg Male 2 (reliable with restrictions) 2 Rat 4300 mg/kg Male 2 (reliable with restrictions)		
Pinene alpha	2 Rat 3956 mg/kg Male 4 (not assignable) 3 Rat 4800 mg/kg Male 4 (not assignable) 1 Rat 3700 mg/kg Male 4 (not assignable) 4 Rat > 5000 mg/kg 4 (not assignable)	-	-
Cymene para	1 +/- Rat 4750 mg/kg 2 (reliable with restrictions)	-	9.7
Terpinolene	1 Rat 4.39 ml/kg 2 (reliable with restrictions)	-	-
Limone D	1 Mouse 5600 mg/kg Male 4 (not assignable) 2 Mouse 6600 mg/kg Female 4 (not assignable) 3 Rat 4400 mg/kg Male 4 (not assignable) 4 Rat 5200 mg/kg Female 4 (not assignable) 5 Rat 5300 mg/kg Male 4 (not assignable) 6 Rat > 2000 mg/kg Female 1 (reliable without restriction) 7 Rat > 5000 mg/kg Male 4 (not assignable) 8 Rat > 5000 mg/kg 4 (not assignable)	-	-
Eucalyptol	1 Rat 2480 mg/kg Female, Male 4 (not assignable) 2 Rat 4.3 g/kg Female 2 (reliable with restrictions) 3 Rat 4.5 g/kg Female, Male 2 (reliable with restrictions) 4 Rat 4.7 g/kg Male 2 (reliable with restrictions)	-	-
Pinene beta	2 Rat 3956 mg/kg Male 4 (not assignable) 3 Rat 4800 mg/kg Male 4 (not assignable) 1 Rat 3700 mg/kg Male 4 (not assignable) 4 Rat > 5000 mg/kg 4 (not assignable)	-	-
Myrcene	1 Mouse > 3380 mg/kg Female, Male 2 (reliable with restrictions) 2 Rat > 11390 mg/kg Female, Male 2 (reliable with restrictions) 3 Rat > 5000 mg/kg Male 2 (reliable with restrictions)	-	-

SKIN IRRITATION	CAUSES SKIN IRRITATION						
EYE DAMAGE OR IRRITATION	CAUSES SERIOUS EYE IRRITATION.						
RESPIRATORY OR SKIN SENSITIVITY	MAY CAUSE SENSITIZATION BY SKIN CONTACT.						
GERM CELL MUTAGENICITY	NO INFORMATION AVAILABLE.						
CARCINOGENICITY	NO INFORMATION AVAILABLE.						
REPRODUCTIVE TOXICITY	<p>CONTAINS A KNOWN OR SUSPECTED REPRODUCTIVE TOXIN. CLASSIFICATION BASED ON DATA AVAILABLE FOR INGREDIENTS. SUSPECTED OF DAMAGING FERTILITY OR THE UNBORN CHILD.</p> <p>THE TABLE BELOW INDICATES INGREDIENTS ABOVE THE CUT-OFF THRESHOLD CONSIDERED AS RELEVANT WHICH ARE LISTED AS REPRODUCTIVE TOXINS.</p> <table border="1"> <thead> <tr> <th>CHEMICAL NAME</th> <th>EUROPEAN UNION</th> </tr> </thead> <tbody> <tr> <td>TERPINENE GAMMA</td> <td>REP. 2</td> </tr> <tr> <td>CYMENE PARA</td> <td>REP. 2</td> </tr> </tbody> </table>	CHEMICAL NAME	EUROPEAN UNION	TERPINENE GAMMA	REP. 2	CYMENE PARA	REP. 2
CHEMICAL NAME	EUROPEAN UNION						
TERPINENE GAMMA	REP. 2						
CYMENE PARA	REP. 2						
STOT – SINGLE EXPOSURE	MAY CAUSE DROWSINESS OR DIZZINESS.						
STOT – REPEATED EXPOSURE	NO INFORMATION AVAILABLE.						
ASPIRATION HAZARD	MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS.						
11.2	NO DATA.						

INFORMATION ON OTHER HAZARDS																					
SECTION 12: ECOLOGICAL INFORMATION																					
12.1 TOXICITY	TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS. CONTAINS 2.863 % OF COMPONENTS WITH UNKNOWN HAZARDS TO THE AQUATIC ENVIRONMENT.																				
12.2 PERSISTENCE & DEGRADABILITY	NO ADDITIONAL INFORMATION AVAILABLE.																				
12.3 BIO- ACCUMULATIVE POTENTIAL	<p>COMPONENT INFORMATION</p> <table border="1"> <thead> <tr> <th>Chemical name</th> <th>Partition coefficient</th> </tr> </thead> <tbody> <tr> <td>Terpineol alpha</td> <td>2.98</td> </tr> <tr> <td>Pinene alpha</td> <td>4.83</td> </tr> <tr> <td>Cymene para</td> <td>4.10</td> </tr> <tr> <td>Terpinolene</td> <td>4.47</td> </tr> <tr> <td>Limonene D</td> <td>4.232</td> </tr> <tr> <td></td> <td>4.57</td> </tr> <tr> <td>Eucalyptol</td> <td>2.74</td> </tr> <tr> <td>Pinene beta</td> <td>4.16</td> </tr> <tr> <td>Myrcene</td> <td>4.33</td> </tr> </tbody> </table>	Chemical name	Partition coefficient	Terpineol alpha	2.98	Pinene alpha	4.83	Cymene para	4.10	Terpinolene	4.47	Limonene D	4.232		4.57	Eucalyptol	2.74	Pinene beta	4.16	Myrcene	4.33
Chemical name	Partition coefficient																				
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Limonene D	4.232																				
	4.57																				
Eucalyptol	2.74																				
Pinene beta	4.16																				
Myrcene	4.33																				
12.4 MOBILITY IN SOIL	NO ADDITIONAL INFORMATION AVAILABLE.																				
12.5 RESULTS OF PBT & VPVB ASSESSMENT	NO ADDITIONAL INFORMATION AVAILABLE.																				
12.6 ENDOCRINE DISRUPTING PROPERTIES	DO NOT ALLOW PRODUCT TO ENTER STREAMS, SEWERS OR OTHER WATERWAYS.																				
12.7 OTHER ADVERSE EFFECTS	NO DATA.																				
SECTION 13: DISPOSAL INFORMATION																					
13.1 WASTE TREATMENT METHODS	<p>WASTE FROM RESIDUES/UNUSED PRODUCTS: SHOULD NOT BE RELEASED INTO THE ENVIRONMENT. DISPOSE OF IN ACCORDANCE WITH LOCAL REGULATIONS. DISPOSE OF WASTE IN ACCORDANCE WITH ENVIRONMENTAL LEGISLATION.</p> <p>CONTAMINATED PACKAGING: EMPTY CONTAINERS POSE A POTENTIAL FIRE AND EXPLOSION HAZARD. DO NOT CUT, PUNCTURE OR WELD CONTAINERS.</p>																				

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SECTION 14: TRANSPORT INFORMATION	
14.1 TRANSPORT INFORMATION	
UN NUMBER	ROAD: 1197 RAIL: 1197 AIR: 1197
14.2 UN SHIPPING NAME	IMDG: EXTRACTS, LIQUID (ALPHA-PINENE) MARINE POLLUTANT ADR, RID, ADN: EXTRACTS, LIQUID ICAO TI: EXTRACTS, LIQUID
14.3 TRANSPORT HAZARD CLASS(ES)	IMDG 14.1 UN NUMBER OR ID NUMBER 1197 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, 944, 955
 EMS-NO F-E, S-D
 14.7 MARITIME TRANSPORT IN BULK ACCORDING TO IMO INSTRUMENTS IBC03


RID
 14.1 UN/ID NO 1197
 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

ADR
 14.1 UN NUMBER OR ID NUMBER 1197
 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 601
 CLASSIFICATION CODE F1
 TUNNEL RESTRICTION CODE (D/E)

IATA
 14.1 UN NUMBER OR ID NUMBER 1197
 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 A3
 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	NO ADDITIONAL DATA AVAILABLE.
14.7 TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL73/78 & THE IBC CODE.	NO ADDITIONAL DATA.

SECTION 15: REGULATORY INFORMATION

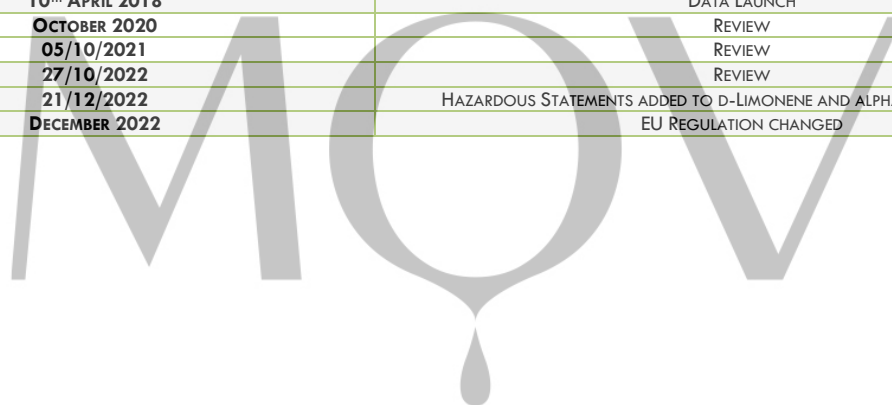
15.1 PRODUCT SPECIFIC SAFETY, HEALTH & ENVIRONMENTAL REGULATIONS & LEGISLATION	
<p style="text-align: center;">EU DIRECTIVES</p>	<p>REGULATION (EC) No 2020/878 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL OF 18TH DECEMBER 2006. CONCERNING THE REGISTRATION, EVALUATION, AUTHORIZATION & RESTRICTION OF 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). 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.</p> <p>DAINGEROUS SUBSTANCE CATEGORY PER SEVESO DIRECTIVE (2012/18/EU)</p> <p>P5A - FLAMMABLE LIQUIDS P5B - FLAMMABLE LIQUIDS P5C - FLAMMABLE LIQUIDS</p> <p>E2 - HAZARDOUS TO THE AQUATIC ENVIRONMENT IN CATEGORY CHRONIC 2.</p> <p>GERMANY: WATER HAZARD CLASS (WGK) STRONGLY HAZARDOUS TO WATER (WGK 3)</p>
<p style="text-align: center;">STATUTORY INSTRUMENTS</p>	<p>THE CHEMICALS (HAZARD INFORMATION & PACKAGING FOR SUPPLY REGULATIONS 2009 (S.I.2009 No 716).</p>
<p style="text-align: center;">APPROVED CODE OF PRACTICE</p>	<p>CLASSIFICATION & LABELLING OF SUBSTANCES & PREPARATIONS DANGEROUS FOR SUPPLY. SAFETY DATA SHEETS FOR SUBSTANCES & PREPARATIONS.</p>
<p style="text-align: center;">GUIDANCE NOTES</p>	<p>WORKPLACE EXPOSURE LIMITS EH40. CHIP FOR EVERYONE HSG 108.</p>
15.2 CHEMICAL SAFETY ASSESSMENT	<p style="text-align: center;">-</p>

SECTION 16: OTHER INFORMATION	
<p style="text-align: center;">HAZARD AND/ OR PRECAUTIONARY STATEMENTS IN FULL</p>	<p>H226 - FLAMMABLE LIQUID AND VAPOR H227 - COMBUSTIBLE LIQUID 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 H319 - CAUSES SERIOUS EYE IRRITATION H320 - CAUSES EYE IRRITATION H331 - TOXIC IF INHALED H332 - HARMFUL IF INHALED H335 - MAY CAUSE RESPIRATORY IRRITATION H336 - MAY CAUSE DROWSINESS OR DIZZINESS H361 - SUSPECTED OF DAMAGING FERTILITY OR THE UNBORN CHILD 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</p>
TRAINING INSTRUCTIONS: REFER TO POSSIBLE HAZARD BEFORE USE OF THIS PRODUCT.	
ABBREVIATIONS & ACRONYMS:	
<p style="text-align: right;">MSDS</p>	<p>MATERIAL SAFETY DATA SHEET.</p>
<p style="text-align: right;">INCI</p>	<p>INTERNATIONAL NOMENCLATURE OF COSMETIC INGREDIENTS.</p>

CAS	CHEMICAL ABSTRACT SERVICE.
IMDG	INTERNATIONAL MARITIME CODE FOR DANGEROUS GOODS.
ADR	ACCORD EUROPEAN SUR LE TRANSPORT DES MARCHANDISES 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
10 TH APRIL 2018	DATA LAUNCH
OCTOBER 2020	REVIEW
05/10/2021	REVIEW
27/10/2022	REVIEW
21/12/2022	HAZARDOUS STATEMENTS ADDED TO D-LIMONENE AND ALPHA-TERPINENE SEC. 3.
DECEMBER 2022	EU REGULATION CHANGED



HERBS