



THE OIL FAMILY

Material Safety Data Sheet

EU Regulation: 1907/2006

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

1.1 PRODUCT IDENTIFICATION					
PRODUCT NAME	EUCALYPTUS GLOBULUS, ESSENTIAL OIL				
BIOLOGICAL DEFINITION	EUCALYPTUS GLOBULUS LEAF OIL IS THE VOLATILE OIL OBTAINED FROM THE FRESH LEAVES OF THE EUCALUPTUS, <i>EUCALYPTUS GLOBULUS</i>				
INCI NAME	EUCALYPTUS GLOBULUS LEAF OIL				
SYNONYMS & TRADE NAMES	-				
INTERNAL PRODUCT CODE	K0175				
CAS-No	8000-48-4/ 84625-32-1	EC No.	283-406-2	EINECS No.	283-406-2
1.2 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET					
COMPANY ADDRESS	O&3 Unit 2, Athelstan Business Park, Hanwell Lane, Hutton Conyers, Ripon, HG4 5BF, England.				
EMAIL	TECHNICALCREW@OAND3.COM				
1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET					
EMERGENCY CONTACTS	MRS. ELEANOR WADE (07968 200167)				





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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) SKIN CORROSION/IRRITATION CATEGORY 2 - (H315) SKIN SENSITIZATION CATEGORY 1B - (H317) 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	EUCALYPTOL, L-LIMONENE, GAMMA-TERPINENE, PARA-CYMENE
HAZARDS STATEMENT	H304 - MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS H315 - CAUSES SKIN IRRITATION H317 - MAY CAUSE AN ALLERGIC SKIN REACTION H411 - TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS H226 - FLAMMABLE LIQUID AND VAPOR EUH208 - CONTAINS L-LIMONENE, ALPHA-PINENE, TERPINOLENE, BETA-PINENE, 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 P370 + P378 - IN CASE OF FIRE: USE DRY CHEMICAL, CO2, WATER SPRAY OR ALCOHOL-RESISTANT FOAM TO EXTINGUISH 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 P273 - AVOID RELEASE TO THE ENVIRONMENT P501 - DISPOSE OF CONTENTS/CONTAINER IN ACCORDANCE WITH LOCAL, REGIONAL, NATIONAL, AND INTERNATIONAL REGULATIONS AS APPLICABLE

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SUPPLEMENTARY PRECAUTIONARY STATEMENTS

P264 WASH CONTAMINATED SKIN THOROUGHLY AFTER HANDLING.
 P272 CONTAMINATED WORK CLOTHING SHOULD NOT BE ALLOWED OUT OF THE WORKPLACE.
 P362+P364 TAKE OFF CONTAMINATED CLOTHING AND WASH IT BEFORE REUSE.
 PP403+P235 STORE IN A WELL-VENTILATED PLACE. KEEP COOL.
 P501 DISPOSE OF CONTENTS/ CONTAINER IN ACCORDANCE WITH NATIONAL REGULATIONS.

SECTION 16 (OTHER INFORMATION): RISK & SAFETY PHRASES IN FULL.

**2.3
OTHER HAZARDS**

ADVERSE PHYSIO-CHEMICAL PROPERTIES

THIS PRODUCT DOES NOT CONTAIN ANY SUBSTANCES CLASSIFIED AS PBT OR VPVB.

ADVERSE EFFECTS ON HUMAN HEALTH

FLAMMABLE LIQUID AND VAPOUR.

PBT OR VPVB ACCORDING TO ANNEX XIII

THE LIQUID MAY BE IRRITATING TO SKIN. FATAL IF SWALLOWED. MAY CAUSE SKIN SENSITISATION OR ALLERGIC REACTIONS IN SENSITIVE INDIVIDUALS.

SECTION 3: COMPOSITION OF INGREDIENTS

**3.1
SUBSTANCES**

80.0% - <90.0% EUCALYPTOL CAS No.: 470-82-6 CLASSIFICATION (EC 1272/2008)	SKIN IRRIT. 3 (H316) (EFFA) ACUTE TOX. 5 (H303)(EFFA) FLAM. LIQ. 3 (H226)(EFFA) SKIN SENS. 1B (H317) (EFFA)
1.0% - <10.0% L-LIMONENE CAS No.: 5989-54-8 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)
1.0% - <10.0% GAMMA-TERPINENE CAS No.: 99-85-4 CLASSIFICATION (EC 1272/2008)	REP 2 (H361), FLAM. LIQ. 3, ASPIR HAZ. 1 (H304), ACUTE TOX 5 (H303), SKIN IRRIT. 3 (H316)
1.0% - <10.0% PARA-CYMENE CAS No.: 99-87-6 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)
1.0% - <10.0% ALPHA-PINENE CAS No.: 80-56-8 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)
0.1% - <1.0% ALPHA-PHELLANDRENE CAS No.: 99-83-2 CLASSIFICATION (EC 1272/2008)	FLAM. LIQ. 3 (H226) ASP. TOX. 1 (H304) AQUATIC CHRONIC 1 (H410) AQUATIC ACUTE 1 (H400)
0.1% - <1.0% MYRCEBNE CAS No.: 123-35-3 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% - <1.0% TERPINOLENE CAS No.: 586-62-9 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% - <1.0% BETA-PINENE CAS No.: 127-91-3 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)

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	0.1% - <1.0% TRANS BETA-OCIMENE CAS No.: 3779-61-1 CLASSIFICATION (EC 1272/2008) ACUTE TOX. 5 (H303) (EFA) ASP. TOX. 1 (H304) (EFA) SKIN IRRIT. 2 (H315) (EFA) ACUTE AQUATIC 1 (H400) (EFA) CHRONIC AQUATIC 2 (H411) (EFA) FLAM. LIQ. 3 (H226) (EFA)
	0.1% - <1.0% LINALOOL CAS No.: 78-70-6 CLASSIFICATION (EC 1272/2008) AQUATIC ACUTE 3 (H402) (EFA) EYE IRRIT. 2 (H319) (EFA) SKIN IRRIT. 2 (H315) (EFA) ACUTE TOX. 5 (H303)(EFA) FLAM. LIQ. 4 (H227)(EFA) SKIN SENS. 1B (H317) (EFA)

SECTION 4: FIRST AID MEASURES

4.1 DESCRIPTION OF FIRST AID MEASURES	
GENERAL INFORMATION	ALWAYS REMOVE CONTAMINATED CLOTHING IMMEDIATELY. SHOW THIS SAFETY DATA SHEET TO THE DOCTOR IN ATTENDANCE. IMMEDIATE MEDICAL ATTENTION IS REQUIRED.
INHALATION	ASPIRATION INTO LUNGS CAN PRODUCE SEVERE LUNG DAMAGE. IF BREATHING HAS STOPPED, GIVE ARTIFICIAL RESPIRATION. GET MEDICAL ATTENTION IMMEDIATELY. REMOVE TO FRESH AIR. 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 EDEMA MAY OCCUR.
INGESTION	ASPIRATION HAZARD IF SWALLOWED - CAN ENTER LUNGS AND CAUSE DAMAGE. DO NOT INDUCE VOMITING. IF VOMITING OCCURS SPONTANEOUSLY, KEEP HEAD BELOW HIPS TO PREVENT ASPIRATION. RINSE MOUTH. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. 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. IN THE CASE OF SKIN IRRITATION OR ALLERGIC REACTIONS SEE 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. REMOVE CONTACT LENSES, IF PRESENT AND EASY TO DO. CONTINUE RINSING. GET MEDICAL ATTENTION IF IRRITATION DEVELOPS AND PERSISTS.
4.2 MOST IMPORTANT SYMPTOMS & EFFECTS (ACUTE & DELAYED)	ITCHING. RASHES. HIVES. DIFFICULTY IN BREATHING. COUGHING AND/ OR WHEEZING. DIZZINESS. MAY CAUSE REDNESS AND TEARING OF THE EYES. BURNING SENSATION.
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	SUITABLE EXTINGUISHING MEDIA: CARBON DIOXIDE (CO ₂), DRY CHEMICAL, FOAM, WATER SPRAY. UNUSABLE EXTINGUISHING MEDIA: DO NOT USE WATER JET AS AN EXTINGUISHER, AS THIS WILL SPREAD THE FIRE.
5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE	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	VOLATILE ORGANIC COMPOUNDS
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.
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	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

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	TAKE PRECAUTIONARY MEASURES AGAINST STATIC DISCHARGES. DAM UP. SOAK UP WITH INERT ABSORBENT MATERIAL. PICK UP AND TRANSFER TO PROPERLY LABELED CONTAINERS.
6.4 REFERENCES TO OTHER SECTIONS	REFER & CONSIDER SECTIONS 8 & 13.
SECTION 7: HANDLING & STORAGE	
7.1 PRECAUTIONS FOR SAFE-HANDLING	<p>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. IN CASE OF INSUFFICIENT VENTILATION, WEAR SUITABLE RESPIRATORY EQUIPMENT. DO NOT EAT, DRINK OR SMOKE WHEN USING THIS PRODUCT. TAKE OFF CONTAMINATED CLOTHING AND WASH BEFORE REUSE. REMOVE CONTAMINATED CLOTHING AND SHOES.</p> <p>DO NOT EAT, DRINK OR SMOKE WHEN USING THIS PRODUCT. CONTAMINATED WORK CLOTHING MUST 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. WEAR SUITABLE GLOVES AND EYE/FACE PROTECTION. AVOID CONTACT WITH SKIN, EYES OR CLOTHING.</p>
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)	NO ADDITIONAL DATA AVAILABLE.
SECTION 8: EXPOSURE CONTROLS & PERSONAL PROTECTION	

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**8.1
CONTROL PARAMETERS**

Chemical name	Cyprus	Czech Republic	Denmark	Estonia	Finland
para-Cymene 99-87-6	-	-	TWA: 25 ppm TWA: 135 mg/m ³	STEL: 35 ppm STEL: 190 mg/m ³ TWA: 25 ppm TWA: 140 mg/m ³	-
alpha-Pinene 80-56-8	-	-	-	STEL: 50 ppm STEL: 300 mg/m ³ TWA: 25 ppm TWA: 150 mg/m ³	-
Myrcene 123-35-3	-	-	-	STEL: 500 mg/m ³ TWA: 350 mg/m ³	-
beta-Pinene 127-91-3	-	-	-	STEL: 50 ppm STEL: 300 mg/m ³ TWA: 25 ppm TWA: 150 mg/m ³	-
Chemical name	France	Germany TRGS	Germany DFG	Greece	Hungary
l-Limonene 5989-54-8	TWA: 1000 mg/m ³ STEL: 1500 mg/m ³	-	-	-	-
gamma-Terpinene 99-85-4	TWA: 1000 mg/m ³ STEL: 1500 mg/m ³	-	-	-	-
para-Cymene 99-87-6	TWA: 150 mg/m ³ TWA: 1000 mg/m ³ STEL: 1500 mg/m ³	-	-	-	-
alpha-Pinene 80-56-8	TWA: 1000 mg/m ³ STEL: 1500 mg/m ³	-	-	-	-
alpha-Phellandrene 99-83-2	TWA: 1000 mg/m ³ STEL: 1500 mg/m ³	-	-	-	-
Myrcene 123-35-3	TWA: 1000 mg/m ³ STEL: 1500 mg/m ³	-	-	-	-
Terpinolene 586-62-9	TWA: 1000 mg/m ³ STEL: 1500 mg/m ³	-	-	-	-
beta-Pinene 127-91-3	TWA: 1000 mg/m ³ STEL: 1500 mg/m ³	-	-	-	-
trans beta-Ocimene 3779-61-1	TWA: 1000 mg/m ³ STEL: 1500 mg/m ³	-	-	-	-
Chemical name	Ireland	Italy MDLPS	Italy AIDII	Latvia	Lithuania
para-Cymene 99-87-6	-	-	-	TWA: 10 mg/m ³	-
Chemical name	Luxembourg	Malta	Netherlands	Norway	Poland
l-Limonene 5989-54-8	-	-	-	TWA: 25 ppm TWA: 140 mg/m ³ STEL: 37.5 ppm STEL: 175 mg/m ³	-
alpha-Pinene 80-56-8	-	-	-	TWA: 25 ppm TWA: 140 mg/m ³ Skin STEL: 37.5 ppm STEL: 175 mg/m ³	-
Myrcene 123-35-3	-	-	-	TWA: 40 ppm TWA: 275 mg/m ³ STEL: 60 ppm STEL: 343.75 mg/m ³	-
beta-Pinene 127-91-3	-	-	-	TWA: 25 ppm TWA: 140 mg/m ³ STEL: 37.5 ppm STEL: 175 mg/m ³	-
Chemical name	Portugal	Romania	Slovakia	Slovenia	Spain
alpha-Pinene	TWA: 20 ppm	-	-	-	TWA: 20 ppm
80-56-8	-	TWA: 700 mg/m ³ STEL: 1000 mg/m ³	-	-	TWA: 113 mg/m ³
Myrcene 123-35-3	-	-	-	-	-
beta-Pinene 127-91-3	TWA: 20 ppm	-	-	-	TWA: 20 ppm TWA: 113 mg/m ³
Chemical name	Sweden	Switzerland	United Kingdom		
alpha-Pinene 80-56-8	-	Skin STEL: 40 ppm STEL: 224 mg/m ³ TWA: 20 ppm TWA: 112 mg/m ³	-		
beta-Pinene 127-91-3	-	Skin STEL: 40 ppm STEL: 224 mg/m ³ TWA: 20 ppm TWA: 112 mg/m ³	-		

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

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DERIVED NO EFFECT LEVEL (DNEL) WORKERS.
DERMAL 1 MG/KG BW/DAY
INHALATION 3.52 MG/M³

DERIVED NO EFFECT LEVEL (DNEL) GENERAL POPULATION.
ORAL 0.5 MG/KG BW/DAY
DERMAL 0.5 MG/KG BW/DAY
INHALATION 0.87 MG/M³

PREDICTED NO EFFECT CONCENTRATION (PNEC)
FRESH WATER 2.04 µG/L
SEA WATER 0.204 µG/L
SEA SEDIMENT 0.066 MG/KG SEDIMENT DW
SOIL 0.134 MG/KG SOIL DW
IMPACT ON SEWAGE TREATMENT 10 MG/L

8.2 EXPOSURE CONTROLS



EYE PROTECTION

WEAR PROTECTIVE GLOVES/EYE PROTECTION/FACE PROTECTION. AVOID CONTACT WITH EYES. WEAR APPROVED SAFETY GOGGLES. (EN166)

HAND PROTECTION

AVOID CONTACT WITH SKIN. WASH HANDS BEFORE BREAKS AND AT END OF WORK. WEAR PROTECTIVE GLOVES. DIN/EN 374. THE GLOVE MATERIAL HAS TO BE IMPERMEABLE AND RESISTANT TO THE PRODUCT/ THE SUBSTANCE/ THE PREPARATION. PENETRATION TIME OF GLOVE MATERIAL: THE EXACT BREAK THROUGH TIME HAS TO BE FOUND OUT BY THE MANUFACTURER OF THE PROTECTIVE GLOVES AND HAS TO BE OBSERVED.

RESPIRATORY EQUIPMENT

GENERALLY UNNECESSARY IN A WELL VENTILATED AREA. IF VENTILATION IS INSUFFICIENT, RESPIRATORY PROTECTION MUST BE WORN.

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.

PERSONAL PROTECTION

AVOID INHALATION OF THE PRODUCT. AVOID CONTACT WITH SKIN AND EYES. AVOID CONTACT WITH SKIN AND EYES. USE PERSONAL PROTECTION ACCORDING TO DIRECTIVE 89/686/EEC.

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 YELLOW

ODOUR

CHARACTERISTIC

RELATIVE DENSITY @ 20°C

APPROX. 0.927 @ 20°C

FLASH POINT (°C)

46°C PMCC (PENSKEY-MARTENS CLOSED CUP).

SOLUBILITY IN WATER @ 20 °C

NO DATA

9.2 OTHER INFORMATION

MELTING POINT (°C) = < -20°C

BOILING POINT (°C) = 153 - 184°C

VAPOUR PRESSURE = 0.351 PA @ 25°C

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	AUTO-IGNITION TEMPERATURE (°C) = 270°C
SECTION 10: STABILITY & REACTIVITY	
10.1 REACTIVITY	THE SUBSTANCE IS STABLE UNDER NORMAL STORAGE AND HANDLING CONDITIONS
10.2 CHEMICAL STABILITY	STABLE UNDER SUGGESTED STORAGE CONDITIONS (<15°C). STABLE UNDER NORMAL CONDITIONS.
10.3 POSSIBILITY OF HAZARDOUS REACTIONS	NONE UNDER NORMAL PROCESSING.
10.4 CONDITIONS TO AVOID	STORAGE AT HIGH TEMPERATURES. DO NOT STORE ABOVE 15°C. AVOID HEAT, FLAMES AND OTHER SOURCES OF IGNITION.
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																																													
ACUTE TOXICITY	<p>Oral LD50 3,320 mg/kg Dermal LD50 >5,000 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>Eucalyptol</td> <td>= 2480 mg/kg (Rat)</td> <td>-</td> <td>-</td> </tr> <tr> <td>l-Limonene</td> <td>Memo</td> <td>>5,000 mg/kg</td> <td>-</td> </tr> <tr> <td>gamma-Terpinene</td> <td>3,850 mg/kg (Rat)</td> <td>-</td> <td>-</td> </tr> <tr> <td>para-Cymene</td> <td>4,750 mg/kg (Rat)</td> <td>>5,000 mg/kg (Rabbit)</td> <td>>9.7 mg/L (Rat) 5hr</td> </tr> <tr> <td>alpha-Pinene</td> <td>500mg/kg (Rat)</td> <td>> 5000 mg/kg (Rat)</td> <td>-</td> </tr> <tr> <td>alpha-Phellandrene</td> <td>= 5700 mg/kg (Rat)</td> <td>-</td> <td>-</td> </tr> <tr> <td>Myrcene</td> <td>> 5 g/kg (Rat)</td> <td>> 5 g/kg (Rabbit)</td> <td>-</td> </tr> <tr> <td>Terpinolene</td> <td>3,775mg/kg</td> <td>-</td> <td>-</td> </tr> </tbody> </table> <table border="1"> <tbody> <tr> <td>beta-Pinene</td> <td>= 4700 mg/kg (Rat) > 5000 mg/kg (Rat)</td> <td>> 5000 mg/kg (Rabbit)</td> <td>-</td> </tr> <tr> <td>Linalool</td> <td>= 2790 mg/kg (Rat)</td> <td>= 2000 mg/kg (Rabbit) = 5610 mg/kg (Rat)</td> <td>>20mg/L</td> </tr> </tbody> </table>	Chemical name	Oral LD50	Dermal LD50	Inhalation LC50	Eucalyptol	= 2480 mg/kg (Rat)	-	-	l-Limonene	Memo	>5,000 mg/kg	-	gamma-Terpinene	3,850 mg/kg (Rat)	-	-	para-Cymene	4,750 mg/kg (Rat)	>5,000 mg/kg (Rabbit)	>9.7 mg/L (Rat) 5hr	alpha-Pinene	500mg/kg (Rat)	> 5000 mg/kg (Rat)	-	alpha-Phellandrene	= 5700 mg/kg (Rat)	-	-	Myrcene	> 5 g/kg (Rat)	> 5 g/kg (Rabbit)	-	Terpinolene	3,775mg/kg	-	-	beta-Pinene	= 4700 mg/kg (Rat) > 5000 mg/kg (Rat)	> 5000 mg/kg (Rabbit)	-	Linalool	= 2790 mg/kg (Rat)	= 2000 mg/kg (Rabbit) = 5610 mg/kg (Rat)	>20mg/L
Chemical name	Oral LD50	Dermal LD50	Inhalation LC50																																										
Eucalyptol	= 2480 mg/kg (Rat)	-	-																																										
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Linalool	= 2790 mg/kg (Rat)	= 2000 mg/kg (Rabbit) = 5610 mg/kg (Rat)	>20mg/L																																										
SKIN IRRITATION	CAUSES SKIN IRRITATION.																																												
EYE DAMAGE OR IRRITATION	NOT CLASSIFIED.																																												
RESPIRATORY OR SKIN SENSITIVITY	SKIN – MAY CAUSE AN ALLERGIC SKIN REACTION.																																												
GERM CELL MUTAGENICITY	NOT CLASSIFIED.																																												
CARCINOGENICITY	NOT CLASSIFIED.																																												
REPRODUCTIVE TOXICITY	GAMMA-TERPINENE REP. 2 PARA-CYMENE REP. 2																																												
STOT – SINGLE EXPOSURE	ORAL.																																												
STOT – REPEATED EXPOSURE	NOT CLASSIFIED.																																												
ASPIRATION HAZARD	MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS.																																												
OTHER INFORMATION	NO DATA.																																												

SECTION 12: ECOLOGICAL INFORMATION

12.1	TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS.
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TOXICITY				
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)
para-Cymene	-	96hr LC50 - 48 mg/L (Cyprinodon variegatus)	-	72hr ErC50 - 4.03 mg/L, NOErC - 1.4 mg/L (Scenedesmus capricornutum)
alpha-Pinene	-	0.28: 96 h Pimephales promelas mg/L LC50 static	-	41: 48 h Daphnia magna mg/L LC50
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	NO DATA.			
SECTION 13: DISPOSAL INFORMATION				
13.1 WASTE TREATMENT METHODS	<p>DO NOT ALLOW ENTRY INTO DRAINS OR WATERWAYS.</p> <p>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.</p> <p>SOILED PACKAGING: EMPTY CONTAINER COMPLETELY. KEEP LABEL(S) ON CONTAINER. DISPOSE OF VIA A CERTIFIED DISPOSAL CONTRACTOR.</p> <p>EMPTY CONTAINERS POSE A POTENTIAL FIRE AND EXPLOSION HAZARD. DO NOT CUT, PUNCTURE OR WELD CONTAINERS.</p>			
SECTION 14: TRANSPORT INFORMATION				
14.1 TRANSPORT INFORMATION				

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<p style="text-align: right;">UN NUMBER</p>	<p>ROAD: 1169 SEA: 1169 AIR: 1169</p>
<p>14.2 UN SHIPPING NAME</p>	<p>EXTRACTS, AROMATIC, LIQUID.</p>
<p>14.3 TRANSPORT HAZARD CLASS(ES)</p>	<p>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 601 CLASSIFICATION CODE F1 TUNNEL RESTRICTION CODE (D/E)</p> <p>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</p> <p>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, 944, 955 EMS-NO F-E, S-D 14.7 MARITIME TRANSPORT IN BULK ACCORDING TO IMO INSTRUMENTS</p> <p>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 A3 ERG CODE 3L</p> <p>TRANSPORT LABELS</p> <div style="text-align: center;">  </div>
<p>14.4 PACKING GROUP</p>	<p>ADR/RID/ADN PACKING GROUP: III IMDG PACKING GROUP: III ICAO PACKING GROUP: III</p>
<p>14.5 ENVIROMENTAL HAZARDS</p>	<p>ENVIRONMENTALLY HAZARDOUS SUBSTANCE/MARINE POLLUTANT</p>

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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.
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 18 TH 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.
15.2 CHEMICAL SAFETY ASSESSMENT	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)
SECTION 16: OTHER INFORMATION	
HAZARD AND/ OR PRECAUTIONARY STATEMENTS IN FULL	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 H315 - CAUSES SKIN IRRITATION H316 - CAUSES MILD SKIN IRRITATION H317 - MAY CAUSE AN ALLERGIC SKIN REACTION H319 - CAUSES SERIOUS EYE IRRITATION 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
OTHER INFORMATION	TWA TWA (TIME-WEIGHTED AVERAGE) STEL STEL (SHORT TERM EXPOSURE LIMIT) CEILING MAXIMUM LIMIT VALUE * SKIN DESIGNATION + SENSITIZERS
TRAINING INSTRUCTIONS: REFER TO POSSIBLE HAZARD BEFORE USE OF THIS PRODUCT.	
ABBREVIATIONS & ACRONYMS:	

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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 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
FEBRUARY 2021	REVIEW
26/08/2021	AMENDMENT OF ALPHA – TERPINEOL CAS NUMBER.
21/11/2022	AMENDMENT OF SEC. 2 - 14

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