



NHR ORGANIC OILS
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Safety Data Sheet

Organic Scots Pine Needle Essential Oil





(*Pinus sylvestris*)

EU Regulation: 1907/2006

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING					
1.1 PRODUCT IDENTIFICATION					
PRODUCT NAME	PINE SYLVESTRIS, ESSENTIAL OIL ORGANIC				
BIOLOGICAL DEFINITION	PINUS SYLVESTRIS LEAF OIL IS THE VOLATILE OIL OBTAINED FROM THE NEEDLES OF THE SCOTCH PINE, PINUS SYLVESTRIS L., PINACEAE.				
INCI NAME	PINUS SYLVESTRIS LEAF OIL				
SYNONYMS & TRADE NAMES	-				
CAS-No	8023-99-2 / 84012-35-1	EC No.	281-679-2	EINECS No.	281-679-2
1.2 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET					
COMPANY ADDRESS	NHR Organic Oils 24 Chatham Place Brighton BN1 3TN				
EMAIL	info@nhrorganiccoils.com				
1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET					
EMERGENCY CONTACTS	01273 746505				

SECTION 2: HAZARDS IDENTIFICATION	
2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE	
CLASSIFICATION (EU1272/2008)	THE FULL TEXT FOR ALL HAZARD STATEMENTS IS DISPLAYED IN SECTION 16. PHYSICAL HAZARDS: FLAM. LIQ. 3 - H226 HEALTH HAZARDS: ASP. TOX. 1 - H304, SKIN IRRIT. 2 - H315, SKIN SENS. 1B - H317 ENVIRONMENTAL HAZARDS: AQUATIC CHRONIC 2 - H411 *SEE SECTION 16 FOR OTHER INFORMATION ON PRODUCT CLASSIFICATION
2.2 LABEL ELEMENTS	LABEL IN ACCORDANCE WITH REGULATION (EC) No 1272/2008.

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GHS LABEL	   
SIGNAL WORD	DANGER.
CONTAINS	ALPHA-PINENE, BETA-PINENE, D-LIMONENE, DELTA-3-CARENE, MYRCENE
HAZARDS STATEMENT	H226 FLAMMABLE LIQUID AND VAPOUR. 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.
PRECAUTIONARY STATEMENTS	P210 KEEP AWAY FROM HEAT, HOT SURFACES, SPARKS, OPEN FLAMES AND OTHER IGNITION SOURCES. NO SMOKING. P261 AVOID BREATHING VAPOUR/ SPRAY. P273 AVOID RELEASE TO THE ENVIRONMENT. P280 WEAR PROTECTIVE GLOVES/PROTECTIVE CLOTHING/EYE PROTECTION/FACE PROTECTION. P301+P310 IF SWALLOWED: IMMEDIATELY CALL A POISON CENTER/DOCTOR/PHYSICIAN. P331 DO NOT INDUCE VOMITING. P501 DISPOSE OF CONTENTS/CONTAINER IN ACCORDANCE WITH LOCAL/REGIONAL/NATIONAL/INTERNATIONAL REGULATIONS.
SUPPLEMENTARY PRECAUTIONARY STATEMENTS	P233 KEEP CONTAINER TIGHTLY CLOSED. P240 GROUND AND BOND CONTAINER AND RECEIVING EQUIPMENT. P241 USE EXPLOSION-PROOF ELECTRICAL EQUIPMENT. P242 USE NON-SPARKING TOOLS. P243 TAKE ACTION TO PREVENT STATIC DISCHARGES. P264 WASH CONTAMINATED SKIN THOROUGHLY AFTER HANDLING. P272 CONTAMINATED WORK CLOTHING SHOULD NOT BE ALLOWED OUT OF THE WORKPLACE. P302+P352 IF ON SKIN: WASH WITH PLENTY OF WATER. P303+P361+P353 IF ON SKIN (OR HAIR): TAKE OFF IMMEDIATELY ALL CONTAMINATED CLOTHING. RINSE SKIN WITH WATER OR SHOWER. P321 SPECIFIC TREATMENT (SEE MEDICAL ADVICE ON THIS LABEL). P332+P313 IF SKIN IRRITATION OCCURS: GET MEDICAL ADVICE/ ATTENTION. P333+P313 IF SKIN IRRITATION OR RASH OCCURS: GET MEDICAL ADVICE/ ATTENTION. P362+P364 TAKE OFF CONTAMINATED CLOTHING AND WASH IT BEFORE REUSE. P370+P378 IN CASE OF FIRE: USE FOAM, CARBON DIOXIDE, DRY POWDER OR WATER FOG TO EXTINGUISH. P391 COLLECT SPILLAGE. 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	FLAMMABLE LIQUID AND VAPOUR.
ADVERSE EFFECTS ON HUMAN HEALTH	MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS. CAUSES SKIN IRRITATION. MAY CAUSE AN ALLERGIC SKIN REACTION.
PBT OR VPVB ACCORDING TO ANNEX XIII	NO ADDITIONAL DATA AVAILABLE.

SECTION 3: COMPOSITION OF INGREDIENTS

3.2 SUBSTANCES	30 - 60% ALPHA-PINENE CAS No: 80-56-8 EC No: 201-291-9 CLASSIFICATION (EC 1272/2008) FLAM. LIQ. 3 - H226, ACUTE TOX. 4 H302, ASP. TOX. 1 - H304, SKIN IRRIT. 2 - H315, SKIN SENS. 1 - H317, AQUATIC ACUTE 1 – H400, AQUATIC CHRONIC 1 – H410
	3 - 25% BETA-PINENE CAS No: 127-91-3 EC No: 204-872-5 CLASSIFICATION (EC 1272/2008): FLAM. LIQ. 3 - H226, ASP. TOX. 1 - H304, SKIN IRRIT. 2 - H315, SKIN SENS. 1 - H317, AQUATIC ACUTE 1 – H400, AQUATIC CHRONIC 1 – H410
	4 - 15% D-LIMONENE CAS No: 5989-27-5 EC No: 227-813-5 CLASSIFICATION (EC 1272/2008) FLAM. LIQ. 3 – H226, ASP. TOX. 1 H304, SKIN IRRIT 2 – H315, SKIN SENS. 1 – H317 AQUATIC ACUTE 1 – H400, AQUATIC CHRONIC 1 – H410

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	<p>2 - 20% DELTA-3-CARENE CAS No: 13466-78-9 EC No: 236-719-3</p> <p>CLASSIFICATION (EC 1272/2008) FLAM. LIQ. 3 - H226, ASP. TOX. 1 - H304, SKIN IRRIT. 2 - H315, SKIN SENS. 1 - H317, AQUATIC CHRONIC 3 - H412</p>
	<p>1.5 – 10% MYRCENE CAS No: 123-35-3 EC No: 204-322-5</p> <p>CLASSIFICATION (EC 1272/2008) FLAM. LIQ. 3 - H226, ASP. TOX. 1 - H304, SKIN IRRIT. 2 - H315, EYE IRRIT. 2 - H319, AQUATIC ACUTE 1 - H400, AQUATIC CHRONIC 2 - H411</p>
	<p>≤ 7.5% CAMPHENE CAS No: 79-92-5 EC No: 201-234-8</p> <p>CLASSIFICATION (EC 1272/2008) FLAM. SOL. 1 – H228, EYE IRRIT 2 – H319, AQUATIC ACUTE 1 – H400, AQUATIC CHRONIC 1 – H410</p>
	<p>≤ 4% ALPHA-TERPINOLENE CAS No: 586-62-9 EC No: 209-578-0</p> <p>CLASSIFICATION (EC 1272/2008) ASP. TOX. 1 - H304, SKIN SENS. 1B - H317, AQUATIC ACUTE 1 - H400, AQUATIC CHRONIC 1 - H410</p>

SECTION 4: FIRST AID MEASURES

4.1 DESCRIPTION OF FIRST AID MEASURES	
GENERAL INFORMATION	ALWAYS REMOVE CONTAMINATED CLOTHING IMMEDIATELY.
INHALATION	GET MEDICAL ATTENTION IMMEDIATELY. REMOVE FROM EXPOSURE SITE TO FRESH AIR, KEEP AT REST, AND OBTAIN MEDICAL ATTENTION.
INGESTION	GET MEDICAL ATTENTION IMMEDIATELY. RINSE MOUTH WITH WATER AND OBTAIN MEDICAL ATTENTION.
SKIN CONTACT	REMOVE CONTAMINATED CLOTHES. WASH THOROUGHLY WITH SOAP AND WATER. CONTACT PHYSICIAN IF IRRITATION PERSISTS.
EYE CONTACT	FLUSH IMMEDIATELY WITH WATER FOR AT LEAST 15 MINUTES. CONTACT PHYSICIAN IF SYMPTOMS PERSIST.
4.2 MOST IMPORTANT SYMPTOMS & EFFECTS (ACUTE & DELAYED)	OBSERVE RISK OF ASPIRATION IF VOMITING OCCURS..
4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION OR SPECIAL TREATMENT REQUIRED	TREAT SYMPTOMATICALLY.

SECTION 5: FIRE FIGHTING MEASURES

5.1 EXTINGUISHING MATERIAL	FOAM, CO2, DRY CHEMICAL POWDER.
5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE	BURNING PRODUCES IRRITATING, TOXIC AND OBNOXIOUS FUMES
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	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.
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	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.
6.4 REFERENCES TO OTHER SECTIONS	REFER & CONSIDER SECTIONS 4, 7, 8 & 13.

SECTION 7: HANDLING & STORAGE

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<p>7.1 PRECAUTIONS FOR SAFE-HANDLING</p>	<p>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.</p>
<p>7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES</p>	<p>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.</p>
<p>7.3 SPECIFIC END USE(S)</p>	<p>SUITABLE FOR COSMETIC, FRAGRANCE AND PROFESSIONAL USE ONLY.</p>
<p>SECTION 8: EXPOSURE CONTROLS & PERSONAL PROTECTION</p>	
<p>8.1 CONTROL PARAMETERS</p>	<p>ALPHA-PINENE (CAS No: 80-56-8) DNEL WORKERS - INHALATION; LONG TERM SYSTEMIC EFFECTS: 3.8 MG/M³ WORKERS - DERMAL; LONG TERM SYSTEMIC EFFECTS: 0.54 BW/DAY, MG/KG GENERAL POPULATION - INHALATION; LONG TERM SYSTEMIC EFFECTS: 0.67 MG/M³ GENERAL POPULATION - DERMAL; LONG TERM SYSTEMIC EFFECTS: 0.19 MG/KG, BW/DAY GENERAL POPULATION - ORAL; LONG TERM SYSTEMIC EFFECTS: 0.19 MG/KG, BW/DAY PNEC - FRESH WATER; SHORT TERM 0.606 MG/L - FRESH WATER, INTERMITTENT RELEASE; 3.03 MG/L - MARINE WATER; SHORT TERM 0.061 MG/L - INTERMITTENT RELEASE, MARINE WATER; 0.303 MG/L - STP; SHORT TERM 0.2 MG/L - SEDIMENT (FRESH WATER); SHORT TERM 157 MG/KG - SEDIMENT (MARINE WATER); SHORT TERM 15.7 MG/KG - SOIL; SHORT TERM 31.7 MG/KG BETA-PINENE (CAS No: 127-91-3) DNEL WORKERS - INHALATION; LONG TERM SYSTEMIC EFFECTS: 5.69 MG/M³ WORKERS - DERMAL; LONG TERM SYSTEMIC EFFECTS: 0.8 BW/DAY, MG/KG GENERAL POPULATION - INHALATION; LONG TERM SYSTEMIC EFFECTS: 1 MG/M³ GENERAL POPULATION - DERMAL; LONG TERM SYSTEMIC EFFECTS: 0.3 MG/KG, BW/DAY</p>

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GENERAL POPULATION - ORAL; LONG TERM SYSTEMIC EFFECTS: 0.3 BW/DAY, MG/KG
PNEC

- FRESH WATER; SHORT TERM 1.004 MG/L
- INTERMITTENT RELEASE, FRESH WATER; 5.02 MG/L
- MARINE WATER; SHORT TERM 0.1 MG/L
- STP; SHORT TERM 3.26 MG/L
- SEDIMENT (FRESH WATER); SHORT TERM 0.337 MG/KG
- SEDIMENT (MARINE WATER); SHORT TERM 0.034 MG/KG
- SOIL; SHORT TERM 0.067 MG/KG

DELTA-3-CARENE (CAS No: 13466-78-9)

DNEL

WORKERS - INHALATION; LONG TERM SYSTEMIC EFFECTS: 5.69 MG/M³
WORKERS - DERMAL; LONG TERM SYSTEMIC EFFECTS: 0.8 MG/KG, BW/DAY
GENERAL POPULATION - INHALATION; LONG TERM SYSTEMIC EFFECTS: 1 MG/M³
GENERAL POPULATION - DERMAL; LONG TERM SYSTEMIC EFFECTS: 0.3 MG/KG, BW/DAY
GENERAL POPULATION - ORAL; LONG TERM SYSTEMIC EFFECTS: 0.3 BW/DAY, MG/KG

PNEC

- FRESH WATER; SHORT TERM 0.44 MG/L
- MARINE WATER; SHORT TERM 0.044 MG/L
- STP; SHORT TERM 3.26 MG/L
- SEDIMENT (FRESH WATER); SHORT TERM 104 MG/KG
- SEDIMENT (MARINE WATER); SHORT TERM 10.4 MG/KG
- SOIL; SHORT TERM 20.8 MG/KG

MYRCENE(CAS No: 123-35-3)

DNEL

WORKERS - DERMAL; LONG TERM SYSTEMIC EFFECTS: 0.83 MG/KG
WORKERS - INHALATION; LONG TERM SYSTEMIC EFFECTS: 5.83 MG/M³
GENERAL POPULATION - DERMAL; LONG TERM SYSTEMIC EFFECTS: 0.42 MG/KG
GENERAL POPULATION - INHALATION; LONG TERM SYSTEMIC EFFECTS: 1.25 MG/M³

PNEC

- STP; 0.2 MG/L
- SOIL; 1.015 MG/KG
- FRESH WATER; 0.00028 MG/L
- MARINE WATER; 0.0008 MG/L
- SEDIMENT (FRESH WATER); 5.022 MG/KG
- SEDIMENT (MARINE WATER); 0.502 MG/KG

CAMPHENE (CAS No: 79-92-5)

DNEL

WORKERS - INHALATION; LONG TERM SYSTEMIC EFFECTS: 110.19 MG/M³
WORKERS - INHALATION; SHORT TERM SYSTEMIC EFFECTS: 110.19 MG/M³
WORKERS - DERMAL; LONG TERM SYSTEMIC EFFECTS: 0.21 MG/KG, BW/DAY
WORKERS - DERMAL; SHORT TERM SYSTEMIC EFFECTS: 1.25 MG/KG, BW/DAY
GENERAL POPULATION - INHALATION; LONG TERM SYSTEMIC EFFECTS: 54.3 MG/M³
GENERAL POPULATION - INHALATION; SHORT TERM SYSTEMIC EFFECTS: 54.3 MG/M³
GENERAL POPULATION - DERMAL; LONG TERM SYSTEMIC EFFECTS: 0.1 BW/DAY, MG/KG
GENERAL POPULATION - DERMAL; SHORT TERM SYSTEMIC EFFECTS: 0.625 BW/DAY, MG/KG
GENERAL POPULATION - ORAL; LONG TERM SYSTEMIC EFFECTS: 0.1 BW/DAY, MG/KG
GENERAL POPULATION - ORAL; SHORT TERM SYSTEMIC EFFECTS: 0.625 BW/DAY, MG/KG

PNEC

- FRESH WATER; SHORT TERM 0.001 MG/L
- INTERMITTENT RELEASE, FRESH WATER; 0.001 MG/L
- MARINE WATER; SHORT TERM 0 MG/L
- STP; SHORT TERM 10 MG/L
- SEDIMENT (FRESH WATER); SHORT TERM 0.026 MG/KG
- SEDIMENT (MARINE WATER); SHORT TERM 0.003 MG/KG
- SOIL; SHORT TERM 0.021 MG/KG

ALPHA TERPINOLENE (CAS No: 586-62-9)

DNEL

WORKERS - INHALATION; LONG TERM SYSTEMIC EFFECTS: 3.6 MG/M³
WORKERS - DERMAL; LONG TERM SYSTEMIC EFFECTS: 0.52 BW/DAY, MG/KG
GENERAL POPULATION - INHALATION; LONG TERM SYSTEMIC EFFECTS: 0.9 MG/M³
GENERAL POPULATION - DERMAL; LONG TERM SYSTEMIC EFFECTS: 0.26 BW/DAY, MG/KG
GENERAL POPULATION - ORAL; LONG TERM SYSTEMIC EFFECTS: 0.26 BW/DAY, MG/KG

PNEC

- FRESH WATER; SHORT TERM 0.634 MG/L
- FRESH WATER, INTERMITTENT RELEASE; SHORT TERM 0.634 MG/L
- MARINE WATER; SHORT TERM 0.063 MG/L
- STP; SHORT TERM 0.2 MG/L
- SEDIMENT (FRESH WATER); SHORT TERM 14.7 MG/KG
- SEDIMENT (MARINE WATER); SHORT TERM 14.7 MG/KG

- SOIL; SHORT TERM 29.1 MG/KG

**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	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 – PALE YELLOW
ODOUR	CHARACTERISTIC.
RELATIVE DENSITY	0.865 @ 20°C
FLASH POINT (°C)	37°C
REFRACTIVE INDEX @ 20 °C	1.472 @ 20°C
SOLUBILITY IN WATER @ 20 °C	INSOLUBLE IN WATER.
9.2 OTHER INFORMATION	MELTING POINT (°C): < -20.0 BOILING POINT (°C): 169.4 @ 101.325 kPa

SECTION 10: STABILITY & REACTIVITY

10.1 REACTIVITY	PRESENTS NO SIGNIFICANT REACTIVITY HAZARDS, BY ITSELF OR IN CONTACT WITH WATER. STABLE UNDER NORMAL TEMPERATURE AND STORAGE CONDITIONS AND RECOMMENDED USE.
10.2 CHEMICAL STABILITY	STABLE UNDER SUGGESTED STORAGE CONDITIONS (<15°C).
10.3 POSSIBILITY OF HAZARDOUS REACTIONS	NOT EXPECTED UNDER NORMAL CONDITONS OF USE.
10.4 CONDITIONS TO AVOID	KEEP AWAY FROM HEAT, HOT SURFACES, SPARKS, OPEN FLAMES AND OTHER IGNITION SOURCES.

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10.5 INCOMPATIBLE MATERIALS	OXIDISERS.
10.6 HAZARDOUS DECOMPOSITION PRODUCTS	NOT EXPECTED UNDER NORMAL TEMPERATURE CONDITIONS AND RECOMMENDED USE. THERMAL DECOMPOSITION MAY RELEASE/FORM OXIDES OF CARBON (CARBON MONOXIDE, CARBON DIOXIDE) AND OTHER TOXIC GASES.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 TOXICOLOGICAL EFFECTS	
<i>ACUTE TOXICITY</i>	NOT CLASSIFIED AS ACUTELY TOXIC. LD50 (ORAL) 5000MG/KG (RAT) NOTE: THE CLP ADDITIVITY CALCULATION CLASSIFIES PRODUCT AS H302 - HARMFUL IF SWALLOWED. BASED ON THE LD50 VALUE PRODUCT IS NOT ACUTELY TOXIC.
<i>SKIN IRRITATION</i>	CAUSES SKIN IRRITATION.
<i>EYE DAMAGE OR IRRITATION</i>	NOT CLASSIFIED.
<i>RESPIRATORY OR SKIN SENSITIVITY</i>	SKIN – MAY CAUSE AN ALLERGIC SKIN REACTION.
<i>GERM CELL MUTAGENICITY</i>	NOT CLASSIFIED.
<i>CARCINOGENICITY</i>	NOT CLASSIFIED.
<i>REPRODUCTIVE TOXICITY</i>	NOT CLASSIFIED.
<i>STOT – SINGLE EXPOSURE</i>	NOT CLASSIFIED.
<i>STOT – REPEATED EXPOSURE</i>	NOT CLASSIFIED.
<i>ASPIRATION HAZARD</i>	MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS.
<i>OTHER INFORMATION</i>	NO ADDITIONAL DATA AVAILABLE.



SECTION 12: ECOLOGICAL INFORMATION

12.1 TOXICITY	THE CLP ADDITIVITY CALCULATION CLASSIFIES PRODUCT AS AQUATIC ACUTE 1; H400 - VERY TOXIC TO AQUATIC LIFE AQUATIC CHRONIC 1; H410 - VERY TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS. HOWEVER BASED ON REACH DATA PRODUCT IS CLASSIFIED AS AQUATIC CHRONIC 2; H411 - TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS.
12.2 PERSISTENCE & DEGRADABILITY	TO BE CONSIDERED AS READILY BIODEGRADABLE BASED ON ITS READY BIODEGRADABILITY. OIL DOES NOT FULFIL THE CRITERIA FOR PERSISTENCE.
12.3 BIO- ACCUMULATIVE POTENTIAL	NO ADDITIONAL DATA AVAILABLE.
12.4 MOBILITY IN SOIL	NO ADDITIONAL DATA AVAILABLE.
12.5 RESULTS OF PBT & VPVB ASSESSMENT	NO ADDITIONAL DATA AVAILABLE.
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	DO NOT ALLOW ENTRY INTO DRAINS OR WATERWAYS. WASTE: WASTE MANAGEMENT IS CARRIED OUT WITHOUT ENDANGERING HUMAN HEALTH, WITHOUT HARMING
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	<p>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.</p> <p>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>
SECTION 14: TRANSPORT INFORMATION	
14.1 TRANSPORT INFORMATION	
UN NUMBER	ROAD: 1272 RAIL: 1272 AIR: 1272
14.2 UN SHIPPING NAME	PINE OIL
14.3 TRANSPORT HAZARD CLASS(ES)	<p>ADR/RID/ADN CLASS: 3 ADR/RID/ADN CLASSIFICATION CODE F1 IMDG CLASS: 3 ICAO CLASS/DIVISION: 3</p> <p>ADR/RID/ADN EXCEPTED QUANTITIES (EQ) E1 LIMITED QUANTITIES (LQ) 5 L TRANSPORT CATEGORY (TC) 3 TUNNEL RESTRICTION CODE (TRC) D/E HAZARD IDENTIFICATION No 30 EMERGENCY ACTION CODE 3Y</p> <p>IMDG EXCEPTED QUANTITIES (EQ) E1 LIMITED QUANTITIES (LQ) 5 L EMS F-E, S-E</p> <p>ICAO – IATA/DGR EXCEPTED QUANTITIES (EQ) E1 LIMITED QUANTITIES (LQ) 10 L</p> <p>TRANSPORT LABELS</p> 
14.4 PACKING GROUP	ADR/RID/ADN PACKING GROUP III IMDG PACKING GROUP III ICAO PACKING GROUP III
14.5 ENVIROMENTAL HAZARDS	<p>ENVIRONMENTALLY HAZARDOUS SUBSTANCE/MARINE POLLUTANT</p> 
14.6 SPECIAL PRECAUTIONS FOR USER	SEE SECTIONS 6 – 8.

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14.7 TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL73/78 & THE IBC CODE.	PACKED AND TRANSFERRED ACCORDING TO TRANSPORT REGULATIONS.
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	-

SECTION 16: OTHER INFORMATION	
HAZARD AND/ OR PRECAUTIONARY STATEMENTS IN FULL	H226 FLAMMABLE LIQUID AND VAPOUR. H228 FLAMMABLE SOLID. 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. H400 VERY TOXIC TO AQUATIC LIFE. H410 VERY TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS. H411 TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS.
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 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.

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 NHR Organic Oils regularly. The information is not and should not be considered a guarantee or warranty, or a part of our contractual or other legal obligations.