





	ACUTE TOX. 4 SKIN IRRIT. 2 SKIN SENS. 1	H302 HARMFUL IF SWALLOWED. H315 CAUSES SKIN IRRITATION. H317 MAY CAUSE AN ALLERGIC SKIN REACTION
2.2 LABEL ELEMENTS	LABEL IN ACCORDANCE WITH REGULATION (EC) NO 1272/2008.	
GHS Label	   	
Signal Word	DANGER	
Contains	THUJONE, EUCALYPTOL, CAMPHOR, PIN-2(3)-ENE	
Hazards Statement	H226 FLAMMABLE LIQUID AND VAPOUR. H302 HARMFUL IF SWALLOWED. H315 CAUSES SKIN IRRITATION. H317 MAY CAUSE AN ALLERGIC SKIN REACTION. H371 MAY CAUSE DAMAGE TO ORGANS. H304 MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS. H411 TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS.	
Precautionary Statements	P210 KEEP AWAY FROM HEAT/SPARKS/OPEN FLAMES/HOT SURFACES. - NO SMOKING. P241 USE EXPLOSION-PROOF ELECTRICAL/VENTILATING/LIGHTING/EQUIPMENT. P301+P310 IF SWALLOWED: IMMEDIATELY CALL A POISON CENTER/ DOCTOR. P303+P361+P353 IF ON SKIN (OR HAIR): REMOVE/TAKE OFF IMMEDIATELY ALL CONTAMINATED CLOTHING. RINSE SKIN WITH WATER/SHOWER. P405 STORE LOCKED UP. P501 DISPOSE OF CONTENTS/CONTAINER IN ACCORDANCE WITH LOCAL/REGIONAL/NATIONAL/INTERNATIONAL REGULATIONS.	
Supplementary Precautionary Statements	-	
SECTION 1 6 (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	15-45% ALPHA THUJONE CAS: 546-80-5 EINECS: 208-912-2 CLASSIFICATION (EC 1272/2008): ACUTE TOX. 3, H301 4-25% CAMPHOR CAS: 21368-68-3 EINECS: 244-350-4 CLASSIFICATION (EC 1272/2008): FLAM. SOL. 2, H228; STOT SE 2, H371; ACUTE TOX. 4, H332 1 - 6% ALPHA PINENE CAS: 7785-26-4 EINECS: 232-077-3 CLASSIFICATION (EC 1272/2008): FLAM. LIQ. 3, H226; SKIN SENS. 1, H317, ASP. TOX. 1, H304 AQUATIC CHRONIC 1, H410 1 - 5% D-LIMONENE CAS: 5989-27-5 EINECS: 227-813-5 CLASSIFICATION (EC 1272/2008): FLAM. LIQ. 3, H226; SKIN IRRIT. 2, H315; SKIN SENS. 1, H317	

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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)	INHALATION MAY CAUSE COUGHING AND DIFFICULTIES IN BREATHING. INGESTION IRRITATING TO THE RESPIRATORY TRACT AND MAY CAUSE DAMAGE TO THE CENTRAL NERVOUS SYSTEM. SKIN CONTACT TOXIC IN CONTACT WITH SKIN. EYE CONTACT MAY CAUSE EYE IRRITATION.
4.3 Indication of any immediate medical attention or special treatment required	NONE EXPECTED, SEE SECTION 4.1 FOR FURTHER INFORMATION.

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 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.
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7.2 Conditions for safe storage, including any incompatibilities	KEEP THE PRODUCT CONTAINER TIGHTLY CLOSED, IN A DRY, VENTILATED AREA. KEEP AWAY FROM POTENTIAL SOURCES OF IGNITION AND PROTECTED FROM LIGHT. MAINTAIN LIMITED CONTACT WITH OXYGEN.
7.3 Specific end use(s)	NO DATA.

SECTION 8: Exposure Controls & Personal Protection

8.1 Control Parameters	ALPHA THUJONE - INDEX: NA, CAS: 546-80-5, EC NO: 208-912-2 TLV TWA - TLV STEL- VLE 8H- VLE SHORT: NONE. CAMPHOR - INDEX: NA, CAS: 21368-68-3, EC NO: 244-350-4 TLV TWA - TLV STEL- VLE 8H- VLE SHORT: NONE. ALPHA PINENE - INDEX: NA, CAS: 7785-26-4, EC NO: 232-077-3 TLV TWA - TLV STEL- VLE 8H- VLE SHORT: NONE. LIMONENE - INDEX: NA, CAS: 5989-27-5, EC NO: 227-813-5 TLV TWA - TLV STEL- VLE 8H- VLE SHORT: NONE
8.2 Exposure Controls	
Eye Protection	WEAR PROTECTIVE GLOVES/EYE PROTECTION/FACE PROTECTION.
Hand Protection	WEAR PROTECTIVE GLOVES/EYE PROTECTION/FACE PROTECTION.
Respiratory Equipment	UNDER NORMAL CONDITIONS OF USE AND WHERE ADEQUATE VENTILATION IS AVAILABLE TO PREVENT BUILD UP OF EXCESSIVE VAPOUR, THIS MATERIAL SHOULD NOT REQUIRE SPECIAL ENGINEERING CONTROLS. HOWEVER, IN CONDITIONS OF HIGH OR PROLONGED USE, OR HIGH TEMPERATURE OR OTHER CONDITIONS WHICH INCREASE EXPOSURE, THE FOLLOWING ENGINEERING CONTROLS CAN BE USED TO MINIMISE EXPOSURE TO PERSONNEL: A) INCREASE VENTILATION OF THE AREA WITH LOCAL EXHAUST VENTILATION. B) PERSONNEL CAN USE AN APPROVED, APPROPRIATELY FITTED RESPIRATOR WITH ORGANIC VAPOUR CARTRIDGE OR CANISTERS AND PARTICULATE FILTERS. C) USE CLOSED SYSTEMS FOR TRANSFERRING AND PROCESSING THIS MATERIAL. ALSO REFER TO SECTIONS 2 AND 7.
Hygiene Measures	GOOD PERSONAL HYGIENE PRACTICES ARE ALWAYS ADVISABLE, ESPECIALLY WHEN WORKING WITH CHEMICALS / OILS.
Engineering Measures	NONE.
SKIN PROTECTION	WEAR PROTECTIVE CLOTHING TO REDUCE THE RISK OF SKIN AND EYE CONTACT.
PERSONAL PROTECTION	AVOID INHALATION OF THE PRODUCT. AVOID CONTACT WITH SKIN AND EYES.
OTHER PROTECTION	WEAR SUITABLE PROTECTION TO AVOID CONTACT WITH SKIN AND EYES. DO NOT INHALE VAPOURS.
PROCESS CONDITIONS	ENSURE AREA IS WELL VENTILATED. AVOID VAPOUR INHALATION. SAFETY SHOWER & EYE BATH.
ENVIRONMENTAL 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	0.905 – 0.925 @ 20°C
Flash Point (°C)	50°C
Refractive Index	1.458 – 1.474 @ 20°C
Solubility in Water @ 20°C	INSOLUBLE IN WATER. SOLUBLE IN ETHANOL (70%) 1:2 @ 20°C
9.2 Other Information	NO DATA.

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	NO.
10.4 Conditions to avoid	STORAGE AT HIGH TEMPERATURES. DO NOT STORE ABOVE 15°C.
10.5 Incompatible materials	P.V.C
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	HARMFUL IF SWALLOWED LIMONENE - INDEX: N.A., CAS: 5989-27-5, EC NO: 227-813-5 ORAL (RAT) : LD50 4400 MG/KG ORAL (MICE): LD50 > 5500 MG/KG DERMAL (RABBIT): LD50 >2000 MG/KG
Skin irritation	MAY CAUSE AN ALLERGIC SKIN REACTION.
Eye damage or irritation	NOT CLASSIFIED AS IRRITATING TO THE EYE (SOURCE CSR)
Respiratory or skin sensitivity	MAY CAUSE AN ALLERGIC SKIN REACTION.
Germ cell mutagenicity	NEGATIVE. (SOURCE CSR).
Carcinogenicity	NOT APPLICABLE..
Reproductive toxicity	NOT APPLICABLE.
STOT – single exposure	NOT APPLICABLE..
STOT – repeated exposure	NOT APPLICABLE.
Aspiration hazard	MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS.
Other information	THE PRODUCT SHOWS THE FOLLOWING DANGERS ACCORDING TO THE CALCULATION METHOD OF THE GENERAL EU CLASSIFICATION GUIDELINES FOR PREPARATIONS AS ISSUED IN THE LATEST VERSION: HARMFUL IRRITANT

SECTION 12: Ecological Information

12.1 Toxicity	ADOPT GOOD WORKING PRACTICES, SO THAT THE PRODUCT IS NOT RELEASED INTO THE ENVIRONMENT. VERY 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	BIO-ACCUMALATION POTENTIAL
12.4 Mobility in soil	CONSIDERED AS A READILY BIODEGRADABLE NCS. BASED ON THE READY BIODEGRADABILITY OF THE NCS, SIMULATION TESTS IN SURFACE WATER, SEDIMENT AND SOIL ARE NOT REQUIRED IN ACCORDANCE WITH EFFECTS.
12.5 Results of PBT & VPVB assessment	LIST OF SUBSTANCES DANGEROUS FOR THE ENVIRONMENT AND CORRESPONDING CLASSIFICATION: 1% - 6% ALPHA PINENE CAS: 7785-26-4 EC: 232-077-3 H410 VERY TOXIC TO AQUATIC ORGANISMS, MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT. 1% - 5% LIMONENE CAS: 5989-27-5 EC: 227-813-5 H410 VERY TOXIC TO AQUATIC ORGANISMS, MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT. FISH (P.PROMELAS): LC50 33MG/L - 96H DAPHIA MAGNA: EC50 69.6 MG/L - 48H VPVB SUBSTANCES: - PBT SUBSTANCES: NONE
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	ALWAYS RECOVER SPILLED PRODUCT. DISCARD WASTE MATERIAL WITH AUTHORIZED WASTE MANAGEMENT SERVICES. ACT IN ACCORDANCE WITH LOCAL & NATIONAL WASTE REGULATIONS.
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SECTION 14: Transport Information

14.1 Transport Information	
UN NUMBER	ROAD: 3082 RAIL: 3082 AIR: 3082
14.2 UN SHIPPING NAME	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID N.O.S. ALPHA-PINENE, BETA-PINENE)
14.3 TRANSPORT HAZARD CLASS(ES)	ADR/RID/ADN CLASS : 3: (F1) FLAMMABLE LIQUIDS ADR HI NO: 30 IMDG CLASS: 3: FLAMMABLE LIQUIDS ICAO CLASS/DIVISION: 3: FLAMMABLE LIQUIDS

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	<p>TRANSPORT LABELS:</p> 
14.4 PACKING GROUP	<p>ADR/RID/ADN PACKING GROUP III IMDG PACKING GROUP III ICAO PACKING GROUP III</p>
14.5 ENVIROMENTAL HAZARDS	<p>ENVIRONMENTALLY HAZARDOUS SUBSTANCE/MARINE POLLUTANT</p> 
14.6 SPECIAL PRECAUTIONS FOR USER	<p>ADR CLASS 3, PG III, TRANSPORT CATEGORY 3 IMDG-CODE CLASS 3, PG III MARINE POLLUTANT ICAO/IATA-DGR CLASS 3, PG III ADR-TUNNEL RESTRICTION CODE: (D/E) IATA-PASSENGER AIRCRAFT: 309 IATA-CARGO AIRCRAFT: 310 IATA-ERG: 3L IMDG-EMS: F-E, S-D IMDG-STORAGE CATEGORY: A</p>
14.7 TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL73/78 & THE IBC CODE.	<p>NO ADDITIONAL DATA.</p>
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.
15.2 Chemical Safety Assessment	-

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SECTION 16: Other Information

HAZARD AND/ OR PRECAUTIONARY STATEMENTS IN FULL	H226 FLAMMABLE LIQUID AND VAPOUR H228 FLAMMABLE SOLID. H301 TOXIC IF SWALLOWED H304 MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS. H317 MAY CAUSE AN ALLERGIC SKIN REACTION. H332 HARMFUL IF INHALED H371 MAY CAUSE DAMAGE TO ORGANS H410 VERY 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.

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