#### **CERTIFICATE OF ANALYSIS**

#### PRODUCT NAME: ROSEMARY (CINEOL), ESSENTIAL OIL ORGANIC

#### BATCH NUMBER: **45260**11

PRODUCT INCI: ROSMARINUS OFFICINALIS LEAF OIL

PRODUCT CODE: OCROSESPAN

Cas Number: 84604-14-8 / 8000-25-7

EINECS NUMBER: 283-291-9

MANUFACTURING METHOD: STEAM DISTILLED

BEST BEFORE DATE: November 2026

ANALYTICAL DETAILS	Range	RESULTS
Appearance	LIQUID	-
Colour	COLOURLESS – PALE YELLOW	-
Odour	CHARACTERISTIC, ROSE	-
Specific Gravity @ 20°C	0.900 - 0.920	0.910
Refractive Index @ 20°C	1.460 - 1.475	1.4665
OPTICAL ROTATION (°C)	-2.0 то +6.0	+0.2

STORAGE CONDITIONS STORE IN A COOL DRY PLACE AWAY FROM HEAT & SUNLIGHT

#### **ALLERGEN STATEMENT**

PRODUCT NAME: ROSEMARY (CINEOL), ESSENTIAL OIL ORGANIC

#### **COSMETIC ALLERGENS**

Annex Illa			TOTAL ALLERGEN
Reference:		CAS NUMBER:	INCLUSION (%):
67	AMYL CINNAMAL	122-40-7	0.000
68	BENZYL ALCOHOL	100-51-6	0.000
69	CINNAMYL ALCOHOL	104-54-1	0.000
70	CITRAL	5392-40-5	0.000
71	EUGENOL	97-53-0	0.000
72	HYDROXY-CITRONELLAL	107-75-5	0.000
73	ISO EUGENOL	97-54-1	0.000
74	AMYLCIN-NAMYL ALCOHOL	101-85-9	0.000
75	BENZYL SALICYLATE	118-58-1	0.000
76	CINNAMAL	104-55-2	0.000
77	COUMARIN	91-64-5	0.000
78	GERANIOL	106-24-1	0.000
79	HYDROXYISOHEXYL 3-CYCLOHEXENE CARBOXALDEHYDE	31906-04-4	0.000
80	ANISE ALCOHOL	105-13-5	0.000
81	BENZYL CINNAMATE	103-41-3	0.000
82	FARNESOL	4602-84-0	0.000
83	BUTYLPHENYL METHYLPROPIONAL	80-54-6	0.000
84	LINALOOL	78-70-6	<0.50
85	BENZYL BENZOATE	120-51-4	0.000
86	CITRONELLOL	106-22-9	0.000
87	HEXYL CINNAM-ALDEHYDE	101-86-0	0.000
88	LIMONENE	5989-27-5	10.0 - 11.0
89	METHYL 2-OCTYNOATE	111-12-6	0.000
90	ALPHA-ISOMETHYL IONONE	127-51-5	0.000
91	EVERNIA PRUNASTRI EXTRACT	90028-68-5	0.000
92	EVERNIA FURFURACEA EXTRACT	90028-67-4	0.000

#### **FOOD ALLERGENS**

Annex Illa		PRESENT IN	CONTAMINATION	FACTORY
Reference:		PRODUCT:	PRESENCE:	PRESENCE:
1	CEREALS (CONTAINING GLUTEN)	NO	NO	YES
2	CRUSTACEANS	NO	NO	NO
3	EGGS	NO	NO	NO
4	FISH	NO	NO	NO
5	PEANUTS	NO	NO	YES
6	SOYA	NO	NO	YES
7	MILK	NO	NO	YES
8	NUTS	NO	NO	YES
9	CELERY & CELERIAC	NO	NO	YES
10	MUSTARD	NO	NO	YES
11	SESAME	NO	NO	YES
12	SULPHUR DIOXIDE & SULPHITES	NO	NO	NO
13	LUPIN	NO	NO	NO
14	MOLLUSC	NO	NO	NO

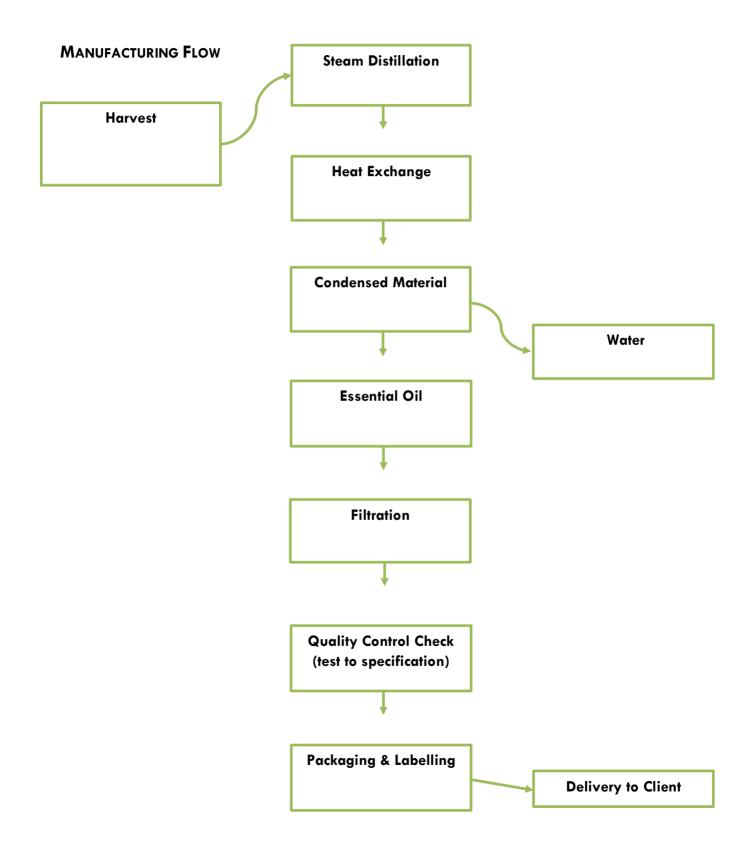
#### MANUFACTURING FLOW & INCI STATEMENT

PRODUCT NAME: ROSEMARY (CINEOL), ESSENTIAL OIL ORGANIC

#### **INCI STATEMENT**

We an hereby confirm the following composition breakdown & manufacturing process flow.

INCI Name	% Inclusion	CAS Number
Rosmarinus Officinalis Leaf Oil	100	84604-14-8 / 8000-25-7



#### **GMO Statement**

PRODUCT NAME: Rosemary Spanish Organic

MADAR Corporation Limited can confirm that the above listed product is GMO Free.

16/07/2020

#### **IFRA STATEMENT**

#### PRODUCT NAME: ROSEMARY (CINEOL), ESSENTIAL OIL ORGANIC

WE CERTIFY THAT THE ABOVE-MENTIONED MATERIAL CONFORMS TO THE IFRA 49 CODE OF PRACTICE AND CONTAINS THE FOLLOWING RESTRICTED COMPONENTS THAT ARE LISTED IN THE 49<sup>TH</sup> AMENDMENT OF THE IFRA CODE OF PRACTICE:

IFRA Category	% Maximum Use Level
IFRA Category 1	Not Restricted
IFRA Category 2	Not Restricted
IFRA Category 3 A, B, C, D	Not Restricted
IFRA Category 4 A, B, C, D	Not Restricted
IFRA Category 5	Not Restricted
IFRA Category 6	Not Restricted
IFRA Category 7A, B	Not Restricted
IFRA Category 7B	Not Restricted
IFRA Category 8 A, B	Not Restricted
IFRA Category 9 A, B, C	Not Restricted
IFRA Category 10 A, B	Not Restricted
IFRA Category 11	Not Restricted
IFRA Category 12	Not Restricted

Category 1	Lip Products of all types (solid and liquid lipsticks, balms, clear or coloured, etc.). Children's toys.	Yes	Applicable (leave-on products)
Category 2	Deodorant and antiperspirant products of all types including any product with intended or reasonably foreseeable use on the axillae or labelled as such (spray, stick, roll-on, under-arm, deo-cologne, etc.). Body sprays (including body mist)	No	Applicable (leave-on products)
Category 3	Eye products of all types (eye shadow, mascara, eyeliner, eye make-up, eye masks, eye pillows, etc.) including eye care and moisturizer Facial make up and foundation. Make-up remover for face and eyes. Nose pore strips. Wipes or refreshing tissues for face, neck, hands, body. Body and face paint (for children and adults). Facial masks for face and around the eyes	No	Applicable (leave-on products)
Category 4	Hydro alcoholic and non-hydro alcoholic fine fragrance of all types (Eau de Toilette, Parfum, Cologne, solid perfume, fragrancing cream, aftershaves of all types, etc.). Fragranced bracelets. Ingredients of perfume kits and fragrance mixtures for cosmetic kits. Scent pads, foil packs. Scent strips for hydro alcoholic products	No	Applicable (leave-on products)
Category 5A	Body creams, oils, lotions of all types. Foot care products (creams and powders). Insect repellent (intended to be applied to the skin). All powders and talc (excluding baby powders and talc).	No	Applicable (leave-on products)
Category 5B	Facial toner. Facial moisturizers and creams	No	Applicable (leave-on products)
Category 5C	(women facial creams) Hand cream. Nail care products including cuticle creams, etc. Hand sanitizers	No	Applicable (leave-on products)
Category 5D	Baby cream/lotion, baby oil, baby powders and talc.	No	Applicable (leave-on products)

Category 6	Toothpaste. Mouthwash, including breath sprays. Toothpowder, strips, mouthwash tablets	Yes	Applicable (leave-on products)
Category 7A	Hair permanent or other hair chemical treatments (rinse-off) (e.g. relaxers), including rinse-off hair dyes	No	Applicable (leave-on products)
Category 7B	Hair sprays of all types (pumps, aerosol sprays, etc.). Hair styling aids non-sprays (mousse, gels, leave- on conditioners). Hair permanent or other hair chemical treatments (leave-on) (e.g. relaxers), including leave-on hair dyes. Shampoo - Dry (waterless shampoo). Hair deodorizer	No	Applicable (leave-on products)
Category 8	Intimate wipes. Tampons. Baby wipes. Toilet paper (wet).	No	Applicable (leave-on products)
Category 9	Bar soap. Shampoo of all type. Cleanser for face (rinse-off). Conditioner (rinse-off). Liquid soap. Body washes and shower gels of all types. Baby wash, bath, shampoo. Bath gels, foams, mousses, salts, oils and other products added to bathwater. Foot care products (feet are placed in a bath for soaking). Shaving creams of all types (stick, gels, foams, etc.). All depilatories (including facial) and waxes for mechanical hair removal. Shampoos for pets	NO	Applicable (rinse-off products)
Category 10A	Hand wash laundry detergent (including concentrates). Laundry pre-treatment of all types (e.g. paste, sprays, sticks). Hand dishwashing detergent (including concentrates). Hard surface cleaners of all types (bathroom and kitchen cleansers, furniture polish, etc.). Machine laundry detergents with skin contact (e.g. liquids, powders) including concentrates. Dry cleaning kits. Toilet seat wipes. Fabric softeners of all types including fabric softener sheets. Household cleaning products, other types including fabric cleaners, soft surface cleaners, carpet cleaners, furniture polishes sprays and wipes, leather cleaning wipes, stain removers, fabric enhancing sprays, treatment products for textiles (e.g. starch sprays, fabric treated with fragrances after wash, deodorizers for textiles or fabrics). Floor wax. Fragranced oil for lamp ring, reed diffusers, pot-pourri, liquid refills for air fresheners (non- cartridge systems), etc. Ironing water (Odorized distilled water).	NO	Applicable (rinse-off products)
Category 10B	Animal sprays – sprays applied to animals of all types. Air freshener sprays, manual, including aerosol and pump. Aerosol/spray insecticides	NO	Applicable (rinse-off products)
Category 11A	Feminine hygiene conventional pads, liners, interlabial pads. Diapers (baby and adult). Adult incontinence pant, pad. Toilet paper (dry).	NO	Not applicable (leave-on products without UV exposure)
Category 11B	Tights with moisturizers. Scented socks, gloves. Facial tissues (dry tissues). Napkins. Paper towels. Wheat bags. Facial masks (paper/protective) e.g. surgical masks not used as medical device. Fertilizers, solid (pellet or powder).	NO	Applicable (leave-on products)
Category 12	Candles of all types (including encased). Laundry detergents for machine wash with minimal skin contact (e.g. Liquid tabs, pods). Automated air fresheners and fragrancing of all types (concentrated aerosol with metered doses (range 0.05-0.5mL/spray), plug-ins, closed systems, solid substrate, membrane delivery, electrical, powders, fragrancing sachets, incense, liquid refills (cartridge), air freshening crystals). Air delivery systems. Cat litter. Cell phone cases. Deodorizers/maskers not intended for skin contact (e.g. fabric drying machine deodorizers, carpet powders). Fuels. Insecticides (e.g. mosquito coil, paper, electrical, for clothing) excluding aerosols/sprays. Joss sticks or incense sticks. Dish wash detergent and deodorizers – for machine wash. Olfactive board games. Paints. Plastic articles (excluding toys). Scratch and sniff. Scent pack. Scent delivery system (using dry air technology). Shoe polishes. Rim blocks (Toilet).	NO	Not applicable (non- skin contact products)

#### **Material Safety Data Sheet**

EU Regulation: 2020/878

SECTION 1: IDENTIFICATION OF		/MIXTURE A	AND OF THE COMPANY/	UNDERTAKING		
1.1 Product Identification						
Product Name	Rosemary spanish (	Cineol), ssenti	IAL ORGANIC			
INCI NAME	Rosmarinus Officin	ialis Leaf Oil				
Synonyms & Trade Names	-					
INTERNAL PRODUCT CODE						
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 DAT	A SHEET					
Company Address	Madar Corporation 19 - 20 Sandlehec		state, Fordingbridge, SP6 11	PA		
EMAIL	technical@madarcorpc	oration.co.uk				
1.3 Details of the supplier of the safety data sheet						
	01425 655 555					

.1 LASSIFICATION 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)	PHYSICAL AND CHEMICAL HAZARDS: FLAMMABLE LIQUID, CATEGORY 3 (FLAM. LIQ. 3, H226).   HUMAN HEALTH: ASPIRATION HAZARD, CATEGORY 1 (ASP. TOX. 1 – H304).   SKIN IRRITATION, CATEGORY 2 (SKIN IRRIT. 2, H315). SKIN SENSITISATION, CATEGORY 1 (SKIN SENS. 1, H317).   SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE), CATEGORY 2 (STOT SE 2, H371).   ENVIRONMENT:   HAZARDOUS TO THE AQUATIC ENVIRONMENT - CHRONIC HAZARD CATEGORY 1 (AQUATIC CHRONIC 1, H410).
2.2 ABEL ELEMENTS	LABEL IN ACCORDANCE WITH REGULATION (EC) NO 1272/2008.
GHS LABEL	GHS07 GHS08 GHS09 GHS02 GHS02
Signal Word	Danger.
Contains	ALPHA-PINENE, BETA-PINENE, CARYOPHYLLENE, (S)-P-MENTHA-1,8-DIENE, MYRCENE - INDIRECT NATURAL IMPURITY, TERPINOLEN CAMPHOR, EUCALYPTOL
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. H371 May cause damage to organs (if swallowed). H410 Very toxic to aquatic life with long lasting effects.
Precautionary Statements	P501 DISPOSE OF CONTENTS IN ACCORDANCE WITH LORAL STATE OR NATIONAL LEGISLATION. P261 AVOID BREATHING DUST/FUME/GAS/MIST/VAPOURS/SPRAY. P321 SPECIFIC TREATMENT (SEE MEDICAL ADVICE ON THIS LABEL). P333+P313 IF SKIN IRRITATION OR RASH OCCURS: GET MEDICAL ADVICE/ATTENTION. P362+P364 TAKE OFF CONTAMINATED CLOTHING. AND WASH IT BEFORE REUSE. P302+P352 IF ON SKIN: WASH WITH PLENTY OF WATER. P308+P311 IF EXPOSED OR CONCERNED: CALL A POISON CENTER/DOCTOR. P273 AVOID RELEASE TO THE ENVIRONMENT. P391 COLLECT SPILLAGE.
Supplementary Precautionary Statements	P264 Wash hands and exposed skin thoroughly after handling. P332+P313 If skin irritation occurs: Get medical advice/attention
	Section 16 (Other Information): Risk & Safety phrases in full.
2.3 Dther Hazards	
Adverse physio-chemical properties	NO DATA
Adverse effects on human health	MAY BE HARMFUL IN CONTACT WITH SKIN.
PBT OR VPVB ACCORDING TO ANNEX XIII	THE SUBSTANCE DOES NOT SATISFY THE PBT OR VPVP CRITERIA IN ACCORDANCE WITH ANNEXE XIII OF THE REACH REGULATION: EC 1907/2006.

Chemical Name	EC No.	CAS No.	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH registration number
Eucalyptol	Present	470-82-6	40 - <50	Skin Irrit. 3 (H316) (EFFA) Acute Tox. 5 (H303)(EFFA) Flam.	No data available
			-	1	
				Liq. 3 (H226)(EFFA) Skin Sens. 1B (H317) (EFFA)	
I-Limonene	Present	5989-54-8	10 - <20	Flam. Liq. 3 (H226) Skin Irrit. 2 (H315) Skin Sens. 18 (H317) Asp. Tox. 1 (H304) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	No data available
alpha-Pinene	Present	80-56-8	10 - <20	Acute Aquatic 1 (H400) (EFFA) Chronic Aquatic 1 (H410) (EFFA) Acute Tox. 4 (H302) (EFFA) Skin Sens. 1B (H317) (EFFA) Aso. Tox. 1 (H304) (EFFA) Flam. Liq. 3 (H226) (EFFA)	No data available
Camphor, d-	Present	464-49-3	10 - <20	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)	No data available
beta-Pinene	Present	127-91-3	1 - <10	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)	No data available
Camphene	Present	79-92-5	1 - <10	Aquatic Acute 1 (H400) (EFFA) Eye Irrit. 2B (H320) (EFFA) Aquatic Chronic 1 (H410) (EFFA) Flam. Sol 2 (H228) (EFFA)	No data available
Borneol	Present	507-70-0	1 - <10	Acute Aquatic 2 (H401), Flam. Sol 2 (H228), Aquatic Chronic 2 (H411), Skin Irrit. 2 (H315), Acute Tox. 5 (H303)	No data available
Caryophyllene	Present	87-44-5	1 - <10	Skin Sens. 1B (H317) (EFFA) Asp. Tox. 1 (H304) (EFFA) Chronic Aquatic 4 (H413) (EFFA)	No data available
para-Cymene	Present	99-87-6	1 - <10	(14413) (EFFA) 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)	No data available
Myrcene	Present	123-35-3	1 - <10	Eye Irrit. 2 (H319) (EFFA) Skin Irrit. 2 (H315) (EFFA) Asp. Tox. 1 (H304) (EFFA)	No data available

				Flam. Liquid 3 (H226) (EFFA) Acute Aquatic 1 (H400) (EFFA) Chronic Aquatic 2 (H411) (EFFA)	
Bornyl acetate	Present	76-49-3	1 - <10	Skin Irrit. 3 (H316) (EFFA) Flam. Liq. 4 (H227)(EFFA) Acute Aquatic 2 (H401) (EFFA)	No data available
alpha-Terpineol	Present	98-55-5	1 - <10	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)	No data available
gamma-Terpinene	Present	99-85-4	0.1 - <1	Rep 2 (H361), Flam. Liq. 3, Aspir Haz. 1 (H304), Acute Tox 5 (H303), Skin Irrit. 3 (H316)	No data available
alpha-Fenchone	Present	7787-20-4	0.1 - <1	Skin Irrit. 3 (H316) (EFFA) Flam. Liq. 4 (H227)(EFFA)	No data available
Linalool	Present	78-70-6	0.1 - <1	Aquatic Acute 3 (H402) (EFFA) Eye Irrit. 2 (H319) (EFFA) Skin Irrit. 2 (H315) (EFFA) Acute Tox. 5 (H303) (EFFA) Fiam. Liq. 4 (H227)(EFFA) Skin Sens. 1B (H317) (EFFA)	No data available
alpha-Phellandrene	Present	99-83-2	0.1 - <1	Skin Irrit. 3 (H316) (EFFA) Asp. Tox. 1 (H304) (EFFA) Flam. Lig. 3 (H226)(EFFA)	No data available
Terpinen-4-ol	Present	562-74-3	0.1 - <1	Aquatic Acute 3 (H402) (EFFA) Eye Irrit. 2 (H319) (EFFA) Skin Irrit. 2 (H315) (EFFA) Acute Tox. 4 (H302) (EFFA) Acute Tox. 5 (H313)(EFFA) Flam. Liq. 4 (H227)(EFFA)	No data available
alpha-Terpinene	Present	99-86-5	0.1 - <1	Aquatic Acute 2 (H401) (EFFA) Skin Irrit. 3 (H316) (EFFA) Aquatic Chronic 2 (H411) (EFFA) Asp. Tox. 1 (H304) (EFFA) Acute Tox. 4 (H302) (EFFA) Flam. Liq. 3 (H226)(EFFA)	No data available
Terpinolene	Present	586-62-9	0.1-<1	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)	No data available
delta-3-Carene	Present	13466-78-9	0.01 - <0.1	Skin Sens. 1 (H317) (EFFA) Skin Irrit. 2 (H315) (EFFA) Asp.	No data available

				Tox. 1 (H304) (EFFA) Acute Tox. 5 (H303)(EFFA) Flam. Liq. 3 (H226)(EFFA) Acute Aquatic 1 (H400)(EFFA) Chronic Aquatic 1 (H410)(EFFA)	
Sabinene	Present	3387-41-5	0.01 - <0.1	Aspiration cat 1 (H304), Flam cat 3 (H226), Skin Irri cat 2 (H315), Skin sensi cat 1B (H317), Acute aquatic cat 1 (H400), Chronic aquatic cat 1 (H410)	No data available
Octen-3-ol	Present	3391-86-4	0.01 - <0.1	Aquatic Acute 2 (H401), Eye Irrit. 2 (H319),Skin Irrit. 2 (H315), Acute Tox. 3 (H301), Acute Tox. 5 (H313), Flarn. Lig. 4 (H227), Acute Tox. 4 (H322), Skin Sens. 1B (H317)	No data available
Caryophyllene oxide	Present	1139-30-6	0.01 - <0.1	Aquatic Acute 2 (H401) (EFFA) Skin Irrit. 3 (H316) (EFFA) Aquatic Chronic 2 (H411) (EFFA)	No data available
trans beta-Ocimene	Present	3779-61-1	0.01 - <0.1	Acute Tox. 5 (H303) (EFFA) Asp. Tox. 1 (H304) (EFFA) Skin Irrit. 2 (H315) (EFFA) Acute Aquatic 1 (H400) (EFFA) Chronic Aquatic 2 (H411) (EFFA) Flam. Liq. 3 (H226) (EFFA)	No data available
Methyl eugenol	Present	93-15-2	0.01 - <0.1	Aquatic Acute 2 (H401) (EFFA) Carc. 2 (H351) (EFFA) Muta. 2 (H341) (EFFA) Acute Tox. 4 (H302) (EFFA)	No data available

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	Do not discharge into drains, water courses or onto the ground. Dispose of in line with Local authority
ENVIRONMENTAL PRECAUTIONS	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	REFER & CONSIDER SECTION 8.
REFERENCES TO OTHER SECTIONS	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 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	

Chemical Name	European Union	United Kingdom	France	Spain	Germany
I-Limonene	-	-	TWA: 1000 mg/m <sup>3</sup>	-	-
5989-54-8			STEL: 1500 mg/m <sup>3</sup>		
alpha-Pinene			TWA: 1000 mg/m <sup>3</sup>	TWA: 20 ppm	-
80-56-8			STEL: 1500 mg/m <sup>3</sup>	TWA: 113 mg/m <sup>3</sup>	
beta-Pinene			TWA: 1000 mg/m <sup>3</sup>	TWA: 20 ppm	-
127-91-3			STEL: 1500 mg/m <sup>3</sup>	TWA: 113 mg/m <sup>3</sup>	
Camphene			TWA: 1000 mg/m <sup>3</sup>		-
79-92-5			STEL: 1500 mg/m3		
para-Cymene			TWA: 150 mg/m <sup>3</sup>		-
99-87-6			TWA: 1000 mg/m <sup>3</sup>		
			STEL: 1500 mg/m <sup>3</sup>		
Myrcene	-	-	TWA: 1000 mg/m <sup>3</sup>	-	-
123-35-3			STEL: 1500 mg/m <sup>3</sup>		
gamma-Terpinene	-	-	TWA: 1000 mg/m <sup>3</sup>	-	-
99-85-4			STEL: 1500 mg/m3		
alpha-Phellandrene	-	-	TWA: 1000 mg/m <sup>3</sup>	-	-
99-83-2			STEL: 1500 mg/m <sup>3</sup>		
alpha-Terpinene	-	-	TWA: 1000 mg/m <sup>3</sup>	-	-
99-86-5			STEL: 1500 mg/m <sup>3</sup>		
Terpinolene	-	-	TWA: 1000 mg/m <sup>3</sup>	-	-
586-62-9			STEL: 1500 mg/m3		
delta-3-Carene	-	-	TWA: 1000 mg/m <sup>3</sup>	TWA: 20 ppm	-
13466-78-9			STEL: 1500 mg/m3	TWA: 113 mg/m <sup>3</sup>	
Sabinene	-	-	TWA: 1000 mg/m3	-	-
3387-41-5			STEL: 1500 mg/m3		
trans beta-Ocimene	-	-	TWA: 1000 mg/m3	-	-
3779-61-1			STEL: 1500 mg/m <sup>3</sup>		
Chemical Name	Italy	Portugal	Netherlands	Finland	Denmark
alpha-Pinene	-	TWA: 20 ppm	-	-	
80-56-8		11111. 20 ppm			
beta-Pinene		TWA: 20 ppm	-		
127-91-3		1117. 20 ppm			
para-Cymene		-	-	-	TWA: 25 ppm
99-87-6	-	-	-	-	TWA: 135 ma/m <sup>3</sup>
delta-3-Carene		TWA: 20 ppm		-	TWA. 155 Hig/III-
	-	1 WA. 20 ppm	-		
13466-78-9	Austria	Switzerland	Boland	Nonway	Iroland
Chemical Name	Austria	Switzerland	Poland	Norway	Ireland
Chemical Name I-Limonene	Austria -	Switzerland -	Poland -	TWA: 25 ppm	Ireland -
Chemical Name		Switzerland -	Poland -		
Chemical Name I-Limonene		Switzerland -	Poland -	TWA: 25 ppm TWA: 140 mg/m <sup>3</sup>	
Chemical Name I-Limonene		Switzerland -	Poland -	TWA: 25 ppm TWA: 140 mg/m <sup>3</sup> STEL: 37.5 ppm	
Chemical Name I-Limonene 5989-54-8	-	-	-	TWA: 25 ppm TWA: 140 mg/m <sup>3</sup> STEL: 37.5 ppm STEL: 175 mg/m <sup>3</sup>	-
Chemical Name I-Limonene 5989-54-8 alpha-Pinene		- Skin	Poland - -	TWA: 25 ppm TWA: 140 mg/m <sup>3</sup> STEL: 37.5 ppm STEL: 175 mg/m <sup>3</sup> TWA: 25 ppm	
Chemical Name I-Limonene 5989-54-8	-	- Skin STEL: 40 ppm	-	TWA: 25 ppm TWA: 140 mg/m <sup>3</sup> STEL: 37.5 ppm STEL: 175 mg/m <sup>3</sup> TWA: 25 ppm TWA: 140 mg/m <sup>3</sup>	-
Chemical Name I-Limonene 5989-54-8 alpha-Pinene	-	Skin STEL: 40 ppm STEL: 224 mg/m <sup>3</sup>	-	TWA: 25 ppm TWA: 140 mg/m <sup>3</sup> STEL: 37.5 ppm STEL: 175 mg/m <sup>3</sup> TWA: 25 ppm TWA: 140 mg/m <sup>3</sup> Skin	-
Chemical Name I-Limonene 5989-54-8 alpha-Pinene	-	Skin STEL: 40 ppm STEL: 224 mg/m <sup>3</sup> TWA: 20 ppm	-	TWA: 25 ppm TWA: 140 mg/m <sup>3</sup> STEL: 37.5 ppm STEL: 175 mg/m <sup>3</sup> TWA: 25 ppm TWA: 26 ppm TWA: 140 mg/m <sup>3</sup> Skin STEL: 37.5 ppm	-
Chemical Name I-Limonene 5989-54-8 alpha-Pinene 80-56-8	-	Skin STEL: 40 ppm STEL: 224 mg/m <sup>3</sup> TWA: 20 ppm TWA: 112 mg/m <sup>3</sup>	-	TWA: 25 ppm TWA: 140 mg/m <sup>3</sup> STEL: 37.5 ppm STEL: 175 mg/m <sup>3</sup> TWA: 25 ppm TWA: 140 mg/m <sup>3</sup> Skin STEL: 37.5 ppm STEL: 175 mg/m <sup>3</sup>	-
Chemical Name I-Limonene 5989-54-8 alpha-Pinene 80-56-8 beta-Pinene	-	Skin STEL: 40 ppm STEL: 224 mg/m <sup>3</sup> TWA: 20 ppm TWA: 112 mg/m <sup>3</sup> Skin	-	TWA: 25 ppm TWA: 140 mg/m <sup>3</sup> STEL: 37.5 ppm STEL: 75 mg/m <sup>3</sup> TWA: 25 ppm TWA: 140 mg/m <sup>3</sup> SKin STEL: 37.5 ppm STEL: 175 mg/m <sup>3</sup> TWA: 25 ppm	-
Chemical Name I-Limonene 5989-54-8 alpha-Pinene 80-56-8	-	- StEL: 40 ppm STEL: 224 mg/m <sup>3</sup> TWA: 20 ppm TWA: 112 mg/m <sup>3</sup> Skin STEL: 40 ppm	-	TWA: 25 ppm TWA: 140 mg/m <sup>3</sup> STEL: 37.5 ppm STEL: 175 mg/m <sup>3</sup> TWA: 25 ppm TWA: 140 mg/m <sup>3</sup> Skin STEL: 37.5 ppm STEL: 37.5 ppm TWA: 25 ppm TWA: 140 mg/m <sup>3</sup>	-
Chemical Name I-Limonene 5989-54-8 alpha-Pinene 80-56-8 beta-Pinene	-	Skin STEL: 40 ppm STEL: 224 mg/m <sup>3</sup> TWA: 12 mg/m <sup>3</sup> Skin STEL: 40 ppm STEL: 244 mg/m <sup>3</sup>	-	TWA: 25 ppm TWA: 140 mg/m <sup>3</sup> STEL: 37.5 ppm STEL: 175 mg/m <sup>3</sup> TWA: 25 ppm TWA: 26 ppm StEL: 37.5 ppm STEL: 175 mg/m <sup>3</sup> TWA: 26 ppm TWA: 140 mg/m <sup>3</sup> STEL: 37.5 ppm	-
Chemical Name I-Limonene 5989-54-8 alpha-Pinene 80-56-8 beta-Pinene	-	Skin STEL: 40 ppm STEL: 224 mg/m <sup>3</sup> TWA: 20 ppm TWA: 112 mg/m <sup>3</sup> Skin STEL: 40 ppm STEL: 224 mg/m <sup>3</sup> TWA: 20 ppm	-	TWA: 25 ppm TWA: 140 mg/m <sup>3</sup> STEL: 37.5 ppm STEL: 175 mg/m <sup>3</sup> TWA: 25 ppm TWA: 140 mg/m <sup>3</sup> Skin STEL: 37.5 ppm STEL: 37.5 ppm TWA: 25 ppm TWA: 140 mg/m <sup>3</sup>	-
Chemical Name I-Limonene 5989-54-8 alpha-Pinene 80-56-8 beta-Pinene 127-91-3	-	Skin STEL: 40 ppm STEL: 224 mg/m <sup>3</sup> TWA: 120 mg/m <sup>3</sup> Skin STEL: 40 ppm STEL: 40 ppm STEL: 224 mg/m <sup>3</sup> TWA: 120 mg/m <sup>3</sup>	- -	TWA: 25 ppm TWA: 140 mg/m <sup>3</sup> STEL: 37.5 ppm STEL: 37.5 ppm TWA: 26 ppm TWA: 26 ppm TWA: 26 ppm STEL: 37.5 ppm STEL: 37.5 ppm TWA: 25 ppm TWA: 25 ppm TWA: 26 ppm STEL: 37.5 ppm STEL: 37.5 ppm STEL: 37.5 ppm	
Chemical Name I-Limonene 5989-54-8 alpha-Pinene 80-56-8 beta-Pinene 127-91-3 Camphene	-	Skin STEL: 40 ppm STEL: 24 mg/m <sup>3</sup> TWA: 20 ppm TWA: 112 mg/m <sup>3</sup> Skin STEL: 40 ppm STEL: 24 mg/m <sup>3</sup> TWA: 20 ppm TWA: 112 mg/m <sup>3</sup> Skin	-	TWA: 25 ppm TWA: 140 mg/m <sup>3</sup> STEL: 37.5 ppm STEL: 175 mg/m <sup>3</sup> TWA: 25 ppm TWA: 26 ppm StEL: 37.5 ppm STEL: 175 mg/m <sup>3</sup> TWA: 26 ppm TWA: 140 mg/m <sup>3</sup> STEL: 37.5 ppm	-
Chemical Name I-Limonene 5989-54-8 alpha-Pinene 80-56-8 beta-Pinene 127-91-3	-	Skin STEL: 40 ppm STEL: 224 mg/m <sup>3</sup> TWA: 20 ppm TWA: 12 mg/m <sup>3</sup> StEL: 40 ppm STEL: 40 ppm STEL: 224 mg/m <sup>3</sup> TWA: 12 mg/m <sup>3</sup> Skin STEL: 40 ppm	- -	TWA: 25 ppm TWA: 140 mg/m <sup>3</sup> STEL: 37.5 ppm STEL: 37.5 ppm TWA: 26 ppm TWA: 26 ppm TWA: 26 ppm STEL: 37.5 ppm STEL: 37.5 ppm TWA: 25 ppm TWA: 25 ppm TWA: 26 ppm STEL: 37.5 ppm STEL: 37.5 ppm STEL: 37.5 ppm	
Chemical Name I-Limonene 5989-54-8 alpha-Pinene 80-56-8 beta-Pinene 127-91-3 Camphene	-	- Skin STEL: 40 ppm STEL: 224 mg/m <sup>3</sup> TWA: 20 ppm TWA: 20 ppm STEL: 24 mg/m <sup>3</sup> STEL: 24 mg/m <sup>3</sup> TWA: 112 mg/m <sup>3</sup> SKin STEL: 40 ppm STEL: 40 ppm STEL: 24 mg/m <sup>3</sup>	- -	TWA: 25 ppm TWA: 140 mg/m <sup>3</sup> STEL: 37.5 ppm STEL: 37.5 ppm TWA: 26 ppm TWA: 26 ppm TWA: 26 ppm STEL: 37.5 ppm STEL: 37.5 ppm TWA: 25 ppm TWA: 25 ppm TWA: 26 ppm STEL: 37.5 ppm STEL: 37.5 ppm STEL: 37.5 ppm	
Chemical Name I-Limonene 5989-54-8 alpha-Pinene 80-56-8 beta-Pinene 127-91-3 Camphene	-	Skin STEL: 40 ppm STEL: 224 mg/m <sup>3</sup> TWA: 20 ppm TWA: 112 mg/m <sup>3</sup> Skin STEL: 224 mg/m <sup>3</sup> TWA: 112 mg/m <sup>3</sup> Skin STEL: 40 ppm STEL: 40 ppm STEL: 224 mg/m <sup>3</sup> TWA: 20 ppm	- -	TWA: 25 ppm TWA: 140 mg/m <sup>3</sup> STEL: 37.5 ppm STEL: 37.5 ppm TWA: 26 ppm TWA: 26 ppm TWA: 26 ppm STEL: 37.5 ppm STEL: 37.5 ppm TWA: 25 ppm TWA: 25 ppm TWA: 26 ppm STEL: 37.5 ppm STEL: 37.5 ppm STEL: 37.5 ppm	
Chemical Name I-Limonene 5989-54-8 alpha-Pinene 80-56-8 beta-Pinene 127-91-3 Camphene 79-92-5	- - -	- Skin STEL: 40 ppm STEL: 224 mg/m <sup>3</sup> TWA: 20 ppm TWA: 20 ppm STEL: 24 mg/m <sup>3</sup> STEL: 24 mg/m <sup>3</sup> TWA: 112 mg/m <sup>3</sup> SKin STEL: 40 ppm STEL: 40 ppm STEL: 24 mg/m <sup>3</sup>	- -	TWA: 25 ppm TWA: 140 mg/m <sup>3</sup> STEL: 37.5 ppm STEL: 75 mg/m <sup>3</sup> TWA: 25 ppm TWA: 25 ppm SKin STEL: 37.5 ppm STEL: 37.5 ppm STEL: 37.5 ppm STEL: 37.5 ppm STEL: 175 mg/m <sup>3</sup>	
Chemical Name I-Limonene 5989-54-8 alpha-Pinene 80-56-8 beta-Pinene 127-91-3 Camphene 79-92-5 Myrcene	-	Skin STEL: 40 ppm STEL: 224 mg/m <sup>3</sup> TWA: 20 ppm TWA: 112 mg/m <sup>3</sup> Skin STEL: 224 mg/m <sup>3</sup> TWA: 112 mg/m <sup>3</sup> Skin STEL: 40 ppm STEL: 40 ppm STEL: 224 mg/m <sup>3</sup> TWA: 20 ppm	- -	TWA: 25 ppm TWA: 140 mg/m <sup>3</sup> STEL: 37.5 ppm STEL: 175 mg/m <sup>3</sup> TWA: 25 ppm TWA: 25 ppm TWA: 25 ppm STEL: 77.5 ppm STEL: 77.5 ppm TWA: 25 ppm TWA: 25 ppm TWA: 140 mg/m <sup>3</sup> STEL: 175 mg/m <sup>3</sup>	
Chemical Name I-Limonene 5989-54-8 alpha-Pinene 80-56-8 beta-Pinene 127-91-3 Camphene 79-92-5	- - -	Skin STEL: 40 ppm STEL: 224 mg/m <sup>3</sup> TWA: 20 ppm TWA: 112 mg/m <sup>3</sup> Skin STEL: 224 mg/m <sup>3</sup> TWA: 112 mg/m <sup>3</sup> Skin STEL: 40 ppm STEL: 40 ppm STEL: 224 mg/m <sup>3</sup> TWA: 20 ppm	- -	TWA: 25 ppm TWA: 140 mg/m <sup>3</sup> STEL: 37.5 ppm STEL: 37.5 ppm TWA: 26 ppm TWA: 26 ppm TWA: 26 ppm STEL: 37.5 ppm STEL: 37.5 ppm TWA: 25 ppm TWA: 26 mg/m <sup>3</sup> TWA: 27 pg/m <sup>3</sup>	
Chemical Name I-Limonene 5989-54-8 alpha-Pinene 80-56-8 beta-Pinene 127-91-3 Camphene 79-92-5 Myrcene	- - -	Skin STEL: 40 ppm STEL: 224 mg/m <sup>3</sup> TWA: 20 ppm TWA: 112 mg/m <sup>3</sup> Skin STEL: 224 mg/m <sup>3</sup> TWA: 112 mg/m <sup>3</sup> Skin STEL: 40 ppm STEL: 40 ppm STEL: 224 mg/m <sup>3</sup> TWA: 20 ppm	- -	TWA: 25 ppm TWA: 140 mg/m <sup>3</sup> STEL: 37.5 ppm STEL: 175 mg/m <sup>3</sup> TWA: 25 ppm TWA: 26 ppm TWA: 40 mg/m <sup>3</sup> STEL: 37.5 ppm STEL: 75 mg/m <sup>3</sup> STEL: 175 mg/m <sup>3</sup> STEL: 175 mg/m <sup>3</sup> STEL: 60 ppm	- - -
Chemical Name I-Limonene 5989-54-8 alpha-Pinene 80-56-8 beta-Pinene 127-91-3 Camphene 79-92-5 Myrcene 123-35-3	- - - -	Skin STEL: 40 ppm STEL: 24 mg/m <sup>3</sup> TWA: 20 ppm TWA: 112 mg/m <sup>3</sup> Skin STEL: 40 ppm STEL: 24 mg/m <sup>3</sup> TWA: 20 ppm STEL: 24 mg/m <sup>3</sup> TWA: 20 ppm TWA: 112 mg/m <sup>3</sup>	- - - - -	TWA: 25 ppm TWA: 140 mg/m <sup>3</sup> STEL: 37.5 ppm STEL: 175 mg/m <sup>3</sup> TWA: 25 ppm TWA: 140 mg/m <sup>3</sup> StEL: 37.5 ppm STEL: 37.5 ppm TWA: 140 mg/m <sup>3</sup> STEL: 37.5 ppm STEL: 37.5 ppm STEL: 175 mg/m <sup>3</sup> STEL: 175 mg/m <sup>3</sup> STEL: 37.5 ppm STEL: 37.5 ppm STEL: 37.5 ppm STEL: 340 ppm TWA: 275 mg/m <sup>3</sup> STEL: 60 ppm STEL: 60 ppm	- - - -
Chemical Name I-Limonene 5989-54-8 alpha-Pinene 80-56-8 beta-Pinene 127-91-3 Camphene 79-92-5 Myrcene 123-35-3 delta-3-Carene	- - -	Skin STEL: 40 ppm STEL: 224 mg/m <sup>3</sup> TWA: 20 ppm TWA: 112 mg/m <sup>3</sup> StEL: 24 mg/m <sup>3</sup> TWA: 20 ppm TWA: 12 mg/m <sup>3</sup> StEL: 24 mg/m <sup>3</sup> StEL: 24 mg/m <sup>3</sup> TWA: 20 ppm TWA: 112 mg/m <sup>3</sup> StEL: 24 mg/m <sup>3</sup>	- -	TWA: 25 ppm TWA: 140 mg/m <sup>3</sup> STEL: 37.5 ppm STEL: 175 mg/m <sup>3</sup> TWA: 25 ppm TWA: 26 ppm TWA: 26 ppm TWA: 26 ppm TWA: 26 ppm STEL: 37.5 ppm STEL: 175 mg/m <sup>3</sup> TWA: 275 mg/m <sup>3</sup> TWA: 275 mg/m <sup>3</sup> STEL: 60 ppm STEL: 343.75 mg/m <sup>3</sup>	- - -
Chemical Name I-Limonene 5989-54-8 alpha-Pinene 80-56-8 beta-Pinene 127-91-3 Camphene 79-92-5 Myrcene 123-35-3	- - - -	Skin STEL: 40 ppm STEL: 24 mg/m <sup>3</sup> TWA: 20 ppm TWA: 112 mg/m <sup>3</sup> Skin STEL: 40 ppm STEL: 24 mg/m <sup>3</sup> Skin STEL: 40 ppm STEL: 24 mg/m <sup>3</sup> TWA: 20 ppm TWA: 112 mg/m <sup>3</sup> TWA: 20 ppm TWA: 112 mg/m <sup>3</sup>	- - - - -	TWA: 25 ppm TWA: 140 mg/m <sup>3</sup> STEL: 37.5 ppm STEL: 175 mg/m <sup>3</sup> TWA: 25 ppm TWA: 140 mg/m <sup>3</sup> SKin STEL: 37.5 ppm STEL: 775 mg/m <sup>3</sup> STEL: 37.5 ppm TWA: 140 mg/m <sup>3</sup> STEL: 375 mg/m <sup>3</sup> STEL: 343.75 mg/m <sup>3</sup> TWA: 25 ppm TWA: 140 mg/m <sup>3</sup>	- - - -
Chemical Name I-Limonene 5989-54-8 alpha-Pinene 80-56-8 beta-Pinene 127-91-3 Camphene 79-92-5 Myrcene 123-35-3 delta-3-Carene	- - - -	Skin STEL: 40 ppm STEL: 224 mg/m <sup>3</sup> TWA: 20 ppm TWA: 112 mg/m <sup>3</sup> StEL: 24 mg/m <sup>3</sup> TWA: 20 ppm TWA: 12 mg/m <sup>3</sup> StEL: 24 mg/m <sup>3</sup> StEL: 24 mg/m <sup>3</sup> TWA: 20 ppm TWA: 112 mg/m <sup>3</sup> StEL: 24 mg/m <sup>3</sup>	- - - - -	TWA: 25 ppm TWA: 140 mg/m <sup>3</sup> STEL: 37.5 ppm STEL: 175 mg/m <sup>3</sup> TWA: 25 ppm TWA: 26 ppm TWA: 26 ppm TWA: 26 ppm TWA: 26 ppm STEL: 37.5 ppm STEL: 175 mg/m <sup>3</sup> TWA: 275 mg/m <sup>3</sup> TWA: 275 mg/m <sup>3</sup> STEL: 60 ppm STEL: 343.75 mg/m <sup>3</sup>	- - - - -

8.2



EYE PROTECTION	WEAR PROTECTIVE GLOVES/EYE PROTECTION/FACE PROTECTION.		
HAND PROTECTION	WEAR PROTECTIVE GLOVES/EYE PROTECTION/FACE PROTECTION.		
RESPIRATORY EQUIPMENT	NO DATA		
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.	
ENVIROMENTAL EXPOSURE CONTROLS	ÁVOID DISCHARGING INTO DRAINAGE WATER.	

#### SECTION 9: PHYSICAL & CHEMICAL PROPERTIES

9.1 Physical & Chemical Properties		
Appearance	CLEAR	
COLOUR	COLOURLESS – PALE YELLOW	
Odour	CHARACTERISTIC, CINEOL.	
RELATIVE DENSITY	Approx 0.910 @ 20°C	
FLASH POINT (°C)	47°C	
<b>REFRACTIVE INDEX @ 20</b> °C	APPROC 1.467 @ 20°C	
Solubility in water @ 20 $^\circ C$	INSOLUBLE IN WATER	
9.2 Other Information	ΝΟ ΔΑΤΑ	
SECTION 10: STABILITY & REACTIVITY		
10.1 Reactivity	NO HAZARDOUS REACTIONS IF STORED AND HANDLED AS PRESCRIBED / INDICATED.	
10.2 Chemical stability	Stable under suggested storage conditions (<15 $^{\circ}$ 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	Strong oxidisning substances.	
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		
Αсυτε Τοχιατγ	NO TOXICOLOGICAL DATA AVAILABLE.	
Skin irritation	CAUSES SKIN IRRITATION	
EYE DAMAGE OR IRRITATION	ΝΟ ΔΑΤΑ	

<b>R</b> ESPIRATORY OR SKIN SENSITIVITY	ΝΟ ΦΑΤΑ
GERM CELL MUTAGENICITY	NO DATA
CARCINOGENICITY	MONOGRAPH(S) FROM THE IARC (INTERNATIONAL AGENCY FOR RESEARCH ON CANCER): CAS 5989- 27-5 : IARC GROUP 3 : THE AGENT IS NOT CLASSIFIABLE AS TO ITS CARCINOGENICITY TO HUMANS.
<b>R</b> EPRODUCTIVE TOXICITY	NOT APPLICABLE.
STOT – SINGLE EXPOSURE	ΝΟ ΔΑΤΑ
STOT – REPEATED EXPOSURE	NOT APPLICABLE.
Aspiration Hazard	MAYBE FATAL IF ENTERS AIRWAVES.
OTHER INFORMATION	NO DATA.

#### **SECTION 12: ECOLOGICAL INFORMATION**

	Chemical Name	Crustacea	Algae/aquatic plants	Fish
	Eucalyptol	48hr EC50/LC50 - 100 mg/L (Daphnia magna)	72hr EC50 - 74 mg/L, EC10 or NOEC - 37 mg/L (Pseudokirchneriella subcapitata)	96 HR LC50 for freshwater fish - 57 mg/L (Oncorhynchus mykiss)
	I-Limonene		NOEC - 0.514 mg/L (Desmodesmus subspicatus)	
101	alpha-Pinene	41: 48 h Daphnia magna mg/L LC50		0.28: 96 h Pimephales promelas mg/L LC50 static
12.1 Toxicity	Camphene	22: 48 h Daphnia magna mg/L EC50		0.72: 96 h Brachydanio rerio mg/L LC50 flow-through 150: 96 h Brachydanio rerio mg/L LC50 statio
	para-Cymene	72hr ErC50 - 4.03 mg/L, NOErC - 1.4 mg/L (Scenedesmus capricornutum)	48hr EC50 - 100 mg/L	96hr LC50 - 48 mg/L (Cyprinodon variegatus)
	alpha-Terpineol	48hr EC50 - 73 mg/l (Daphnia magna)	72hr EC50 - 68mg/l	96hr LC50 - 62 to 80 mg/L (Danio rerio)
	Linalool	48hr EC50 - 59mg/L (Daphnia magna)	96hr EC50 - 156.7 mg/L; EC10 or NOEC - 54.3 mg/L (Desmodesmus subspicatus)	96hr LC50 - 27.8mg/L (Salmo
12.2				
PERSISTENCE & DEGRADABILITY	ΝΟ ΦΑΤΑ			
12.3 BIO- ACCUMULATIVE POTENTIAL	ΝΟ ΔΑΤΑ			
12.4 Mobility in soil	ΝΟ ΔΑΤΑ.			
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.			S.
SECTION 13: DISPOSAL INFORMATION				
13.1		D PRODUCT. DISCARD WAST		
WASTE TREATMENT METHODS	MANAGEMENT SERVICES.	ACT IN ACCORDANCE WITH	LOCAL & NATIONAL WAS	TE REGULATIONS.

SECTION 14: TRANSPORT INFORMATION			
14.1 Transport Information			
UN NUMBER	ROAD: 1197 RAIL: 1197 AIR: 1197		
14.2 UN SHIPPING NAME	Environmentally Hazardous Substance, liquid n.o.s.		
14.3 Transport hazard class(es)	ADR/RID/ADN CLASS 3		

	IMDG CLASS	3
	ICAO CLASS/DIVISION 3	
	FLAWIWABLE	
	3	
	ADR/RID/ADN PACKING GROUP	Ш
14.4	IMDG PACKING GROUP	
PACKING GROUP	ICAO PACKING GROUP	Ш
	Environmentally Hazardous Sue	SSTANCE/MARINE POLLUTANT.
	$\wedge$	
14.5	AV.	
ENVIROMENTAL HAZARDS	$\langle \Upsilon_{7} \rangle$	
	$\sim$	
	EMS	F-E,S-D
14.6	Emergency Action Code	FI
SPECIAL PRECAUTIONS FOR USER	HAZARD NO. (ADR)	90 ENVIRONMENTALLY HAZARDOUS SUBSTANCE.
	TUNNEL RESTRICTION CODE	(D/E)
14.7		
TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL73/78 & THE IBC	EMS: F-A,S-F	
CODE.		
SECTION 15: REGULATORY INFORMATION		
SECTION 15: REGULATORY INFORMATION		
15.1		
PRODUCT SPECIFIC SAFETY, HEALTH & ENVIRONMENTAL REGULATIONS &		
LEGISLATION		
	REGULATION (EC) NO 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL OF 18 DECEMBER 2006. CONCERNING THE REGISTRATION, EVALUATION, AUTHORIZATION & RESTRICTION CHEMICALS (REACH), ESTABLISHING A EUROPEAN CHEMICALS AGENCY, AMENDING DIRECTIVE	
EU DIRECTIVES		
		INCIL REGULATION (EEC) NO793/93 & COMMISSION
		WELL AS COUNCIL DIRECTIVE 76/769/EEC & COMMISSION
		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		ASTANCES & PREPARATIONS DANGEROUS FOR SUPPLY. SAFETY DATA
	SHEETS FOR SUBSTANCES & PREPARAT	
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	H319 - CAUSES SERIOUS EYE IRRITATION

H315 - Causes skin irritation
H304 - MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS
H400 - VERY TOXIC TO AQUATIC LIFE
H410 - Very Toxic to aquatic life with long lasting effects
H317 - MAY CAUSE AN ALLERGIC SKIN REACTION
H226 - FLAMMABLE LIQUID AND VAPOR
H316 - Causes mild skin irritation
H227 - Combustible Liquid
H371 - MAY CAUSE DAMAGE TO ORGANS IF INHALED
H402 - Harmful to aquatic lifeste
H228 - FLAMMABLE SOLID
H302 - Harmful if swallowed
H332 - Harmful if inhaled
H401 - TOXIC 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	
10 <sup>™</sup> April 2018	Data Launch	
OCTOBER 2020	Review	
DECEMBER 2022	EU REGULATION CHANGED	
JANUARY 2023	REVIEW	
07/04/2023	UN NUMBER CHANGED	

#### **SPECIFICATION SHEET**

#### PRODUCT NAME: ROSEMARY (CINEOL), ESSENTIAL OIL ORGANIC

PRODUCT INCI: ROSMARINUS OFFICINALIS LEAF OIL

PRODUCT CODE: K0398 Cas Number: 84604-14-8 / 8000-25-7

EINECS NUMBER: 283-291-9

SHELF LIFE / BEST BEFORE: 24 MONTHS

**DOCUMENTATION REVIEW: 2021** 

ANALYTICAL DETAILS	RANGE
Appearance	LIQUID
COLOUR	COLORLESS – PALE YELLOW
Odour	CHARACTERISTIC
Specific Gravity @ 20°C	0.8920 – 0.920
Refractive Index @ 20°C	1.4580 – 1.480
OPTICAL ROTATION (°C)	1.0 to +8.0

STORAGE CONDITIONS STORE IN A COOL DRY PLACE AWAY FROM HEAT & SUNLIGHT

#### Vegetarian & Vegan Suitability Statement

PRODUCT NAME: Rosemary Spanish Organic

MADAR Corporation Limited can confirm that the above listed product has not been tested in animals and does not contain dairy or any other animal product, by product or derivative and is therefore suitable for vegetarian and vegan use.

16/07/2020