

## **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	Marjoram Sweet, E	Marjoram Sweet, Essential Oil Organic			
BIOLOGICAL DEFINITION	Origanum Majora Labiatae.	na Leaf Oil is	THE VOLATILE OIL DISTILLED FROM	THE LEAVES OF THE SWE	et Marjoram, Origanum majorana L.,
INCI NAME	Origanum Majora	na Leaf Oil			
SYNONYMS & TRADE NAMES	-				
INTERNAL PRODUCT CODE	K0287				
CAS-No	84082-58-6	84082-58-6 <b>EC No.</b> 282-004-4 <b>EINECS No.</b> 282-004-4			282-004-4
.2 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET					
COMPANY ADDRESS	Bomar Ltd Sea Road, Kilcoole, Co. Wicklow				
EMAIL	INFO@BOMAR.IE				
1.3 Details of the supplier of the safety dat	A SHEET	_			
EMERGENCY CONTACTS	John Byrne 01287	5110			



1 ASSIFICATION 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)	ASPIRATION TOXICITY CATEGORY 1 - (H304)  SKIN CORROSION/IRRITATION CATEGORY 2 - (H315)  SERIOUS EYE DAMAGE/EYE IRRITATION CATEGORY 2 - (H319)  SKIN SENSITIZATION CATEGORY 1B - (H317)  REPRODUCTIVE TOXICITY CATEGORY 2 - (H361)  CHRONIC AQUATIC TOXICITY CATEGORY 2 - (H411)  FLAMMABLE LIQUIDS CATEGORY 3 - (H226)	
2 ABEL ELEMENTS	Label in accordance with Regulation (EC) No 1272/2008.	
GHS LABEL	GHS02 GHS07 GHS08 GHS09	
Signal Word	Danger.	
Contains	GAMMA-TERPINENE, ALPHA-TERPINENE, SABINENE, D-LIMONENE	
HAZARDS STATEMENT	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 H361 - Suspected of damaging fertility or the unborn child H411 - Toxic to aquatic life with long lasting effects H226 - Flammable liquid and vapor Contains alpha-Pinene, beta-Pinene EUH208 - Contains (.?). May produce an allergic reaction	
PRECAUTIONARY STATEMENTS	P210 - KEEP AWAY FROM HEAT/SPARKS/OPEN FLAMES/HOT SURFACES NO SMOKING P280 - WEAR PROTECTIVE GLOVES/PROTECTIVE CLOTHING/EYE PROTECTION/FACE PROTECTION P202 - DO NOT HANDLE UNTIL ALL SAFETY PRECAUTIONS HAVE BEEN READ AND UNDERSTOOD P302 + P352 - IF ON SKIN: WASH WITH PLENTY OF SOAP AND WATER P305 + P351 + P338 - IF IN EYES: RINSE CAUTIOUSLY WITH WATER FOR SEVERAL MINUTES. REMOVE CONTACT LENSES, IF PRESENT AND EASY TO DO. CONTINUE RINSING P308 + P313 - IF EXPOSED OR CONCERNED: GET MEDICAL ADVICE/ATTENTION P301 + P310 - IF SWALLOWED: IMMEDIATELY CALL A POISON CENTER OR DOCTOR P331 - DO NOT INDUCE VOMITING P263 - AVOID CONTACT DURING PREGNANCY/WHILE NURSING P273 - AVOID RELEASE TO THE ENVIRONMENT P501 - DISPOSE OF CONTENTS/CONTAINER IN ACCORDANCE WITH LOCAL, REGIONAL, NATIONAL, AND INTERNATIONAL REGULATIONS AS APPLICABLE	
SUPPLEMENTARY PRECAUTIONARY STATEMENTS	H303 - MAY BE HARMFUL IF SWALLOWED H401 - TOXIC TO AQUATIC LIFE	
	Section 16 (Other Information): Risk & Safety phrases in full.	
.3 ITHER HAZARDS		
ADVERSE PHYSIO-CHEMICAL PROPERTIES	NO DATA	
Adverse effects on human health	NO DATA.	
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 REGULATIONS EC 1907/2006.	



## **SECTION 3: COMPOSITION OF INGREDIENTS**

Terpinen-4-ol	Present	562-74-3	20 - <30	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)
Linalool	Present	78-70-6	10 - <20	Aquatic Acute 3 (H402) (EFFA) Eye Irrit. 2 (H319) (EFFA) Skin Irrit. 2 (H315) (EFFA) Acute Tox. 5 (H303)(EFFA) Flam. Liq. 4 (H227)(EFFA) Skin Sens. 1B (H317) (EFFA)
gamma-Terpinene	Present	99-85-4	10 - <20	Rep 2 (H361), Flam. Liq. 3, Aspir Haz. 1 (H304), Acute Tox 5 (H303), Skin Irrit. 3 (H316)
alpha-Terpinene	Present	99-86-5	1 - <10	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)
Sabinene	Present	3387-41-5	1 - <10	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)
d-Limonene	Present	5989-27-5	1 - <10	Aspiration Hazard 1 (H304)(EFFA) Flam. Liq. 3 (H226)(EFFA) Skin Irrit. 2 (H315)(EFFA) Skin Sens. 1B (H317)(EFFA) Aquatic Acute 1 (H400)(EFFA) Aquatic Chronic 1 (H410)(EFFA)
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)
Terpinolene	Present	586-62-9	1 - <10	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)
Linalyl acetate	Present	115-95-7	1 - <10	Aquatic Acute 3 (H402) (EFFA) Eye

3.2 MIXTURES



				Irrit. 2 (H320) (EFFA Skin Irrit. 2 (H315) (EFFA) Flam. Liq. 4 (H227)(EFFA) Skin Sensitization 1 (H317)(EFFA)
Caryophyllene	Present	87-44-5	1 - <10	Skin Sens. 1B (H317 (EFFA) Asp. Tox. 1 (H304) (EFFA) Chronic Aquatic 4 (H413) (EFFA)
Myrcene	Present	123-35-3	1 - <10	Eye Irrit. 2 (H319) (EFFA) Skin Irrit. 2 (H315) (EFFA) Asp. Tox. 1 (H304) (EFFA Flam. Liquid 3 (H226 (EFFA) Acute Aquati 1 (H400) (EFFA) Chronic Aquatic 2 (H411) (EFFA)
beta-Phellandrene	Present	555-10-2	1 - <10	Asp. Tox. 1 (H304) (EFFA) Flam. Liq. 3 (H226) (EFFA)
para-Cymene	Present	99-87-6	0.1 - <1	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)
alpha-Pinene	Present	80-56-8	0.1 - <1	Acute Aquatic 1 (H400) (EFFA) Chronic Aquatic 1 (H410) (EFFA) Acut Tox. 4 (H302) (EFFA) Skin Sens. 1B (H317: (EFFA) Skin Irrit. 2 (H315) (EFFA) Asp Tox. 1 (H304) (EFFA) Flam. Liq. 3 (H226)(EFFA)
beta-Pinene	Present	127-91-3	0.1 - <1	Acute Aquatic 1 (H400) (EFFA) Chronic Aquatic 1 (H410) (EFFA) Skir Sens. 1 (H317) (EFFA) Skin Irrit. 2 (H315) (EFFA) Asp Tox. 1 (H304) (EFFA) EIGHT Liq. 3 (H226)(EFFA)
alpha-Phellandrene	Present	99-83-2	0.1 - <1	Skin Irrit. 3 (H316) (EFFA) Asp. Tox. 1 (H304) (EFFA) Flam Liq. 3 (H226)(EFFA
trans beta-Ocimene	Present	3779-61-1	0.01 - <0.1	Acute Tox. 5 (H303 (EFFA) Asp. Tox. 1 (H304) (EFFA) Skir Irrit. 2 (H315) (EFFA Acute Aquatic 1 (H400) (EFFA) Chronic Aquatic 2 (H411) (EFFA) Flan Liq. 3 (H226) (EFFA
Camphene	Present	79-92-5	0.01 - <0.1	Aquatic Acute 1 (H400) (EFFA) Eye Irrit. 2B (H320) (EFF. Aquatic Chronic 1



4.1			
4.1 DESCRIPTION OF FIRST AID MEASURES			
GENERAL INFORMATION	ALWAYS REMOVE CONTAMINATED CLOTHING IMMEDIATELY.		
INHALATION	IMMEDIATE MEDICAL ATTENTION IS NOT REQUIRED. IF SYMPTOMS PERSIST, CALL A PHYSICIAN. MOVE TO FRESH AIR IN CASE OF ACCIDENTAL INHALATION OF VAPORS OR DECOMPOSITION PRODUCTS.		
Ingestion	GET MEDICAL ATTENTION IMMEDIATELY. RINSE MOUTH WITH WATER AND OBTAIN MEDICAL ATTENTION. DO NOT INDUCE VOMITING.		
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)	None known.		
I.3 NDICATION OF ANY IMMEDIATE MEDICAL ATTENTION OR PECIAL TREATMENT REQUIRED	TTREAT 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	SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS:		
	WEAR POSITIVE-PRESSURE SELF-CONTAINED BREATHING APPARATUS (SCBA) AND APPROPRIATE PROTECTIVE CLOTHING.  URES		
SECTION 6: ACCIDENTAL RELEASE MEAS			
SECTION 6: ACCIDENTAL RELEASE MEAS 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.		
SECTION 6: ACCIDENTAL RELEASE MEAS 6.1 PERSONAL PRECAUTIONS 6.2	URES  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		
SECTION 6: ACCIDENTAL RELEASE MEAS  6.1 PERSONAL PRECAUTIONS  6.2 ENVIRONMENTAL PRECAUTIONS  6.3 METHODS & MATERIAL FOR CONTAINMENT AND CLEANING	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.  DO NOT DISCHARGE INTO DRAINS, WATER COURSES OR ONTO THE GROUND. DISPOSE OF IN LINE WITH LOCAL AUTHORITY GUIDELINES.  REMOVE IGNITION SOURCES. PROVIDE ADEQUATE VENTUATION. AVOID EXCESSIVE INHALATION OF VAPOURS. CONTAIN		
SECTION 6: ACCIDENTAL RELEASE MEAS 6.1 PERSONAL PRECAUTIONS 6.2 ENVIRONMENTAL PRECAUTIONS 6.3 METHODS & MATERIAL FOR CONTAINMENT AND CLEANING UP 6.4	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 SKINE EYES AND CLOTHING.  DO NOT DISCHARGE INTO DRAINS, WATER COURSES OR ONTO THE GROUND. DISPOSE OF IN LINE WITH LOCAL AUTHORITY GUIDELINES.  REMOVE IGNITION SOURCES. PROVIDE ADEQUATE VENTILATION. AVOID EXCESSIVE INHALATION OF VAPOURS. CONTAIN		
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SECTION 6: ACCIDENTAL RELEASE MEAS  6.1 PERSONAL PRECAUTIONS 6.2 ENVIRONMENTAL PRECAUTIONS 6.3 METHODS & MATERIAL FOR CONTAINMENT AND CLEANING UP 6.4 REFERENCES TO OTHER SECTIONS  SECTION 7: HANDLING & STORAGE	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.  DO NOT DISCHARGE INTO DRAINS, WATER COURSES OR ONTO THE GROUND. DISPOSE OF IN LINE WITH LOCAL AUTHORITY GUIDELINES.  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.  REFER & CONSIDER SECTION 8. REFER & CONSIDER SECTION 13.  HANDLE IN ACCORDANCE WITH GOOD HYGIENE AND SAFETY PRACTICE. KEEP AWAY FROM HEAT, SPARKS, OPEN FLAMES AN HOT SURFACES NO SMOKING. USE PERSONAL PROTECTIVE EQUIPMENT AS REQUIRED. USE IN ACCORDANCE WITH GOOD		
SECTION 6: ACCIDENTAL RELEASE MEAS  6.1 PERSONAL PRECAUTIONS 6.2 ENVIRONMENTAL PRECAUTIONS 6.3 METHODS & MATERIAL FOR CONTAINMENT AND CLEANING UP 6.4 REFERENCES TO OTHER SECTIONS  SECTION 7: HANDLING & STORAGE  7.1 PRECAUTIONS FOR SAFE-HANDLING	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.  DO NOT DISCHARGE INTO DRAINS, WATER COURSES OR ONTO THE GROUND. DISPOSE OF IN LINE WITH LOCAL AUTHORITY GUIDELINES.  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.  REFER & CONSIDER SECTION 8. REFER & CONSIDER SECTION 13.  HANDLE IN ACCORDANCE WITH GOOD HYGIENE AND SAFETY PRACTICE. KEEP AWAY FROM HEAT, SPARKS, OPEN FLAMES AN 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 O		
SECTION 6: ACCIDENTAL RELEASE MEAS  6.1 PERSONAL PRECAUTIONS 6.2 ENVIRONMENTAL PRECAUTIONS 6.3 METHODS & MATERIAL FOR CONTAINMENT AND CLEANING UP 6.4 REFERENCES TO OTHER SECTIONS  SECTION 7: HANDLING & STORAGE  7.1 PRECAUTIONS FOR SAFE-HANDLING  7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES  7.3 SPECIFIC END USE(S)	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.  DO NOT DISCHARGE INTO DRAINS, WATER COURSES OR ONTO THE GROUND. DISPOSE OF IN LINE WITH LOCAL AUTHORITY GUIDELINES.  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.  REFER & CONSIDER SECTION 8. REFER & CONSIDER SECTION 13.  HANDLE IN ACCORDANCE WITH GOOD HYGIENE AND SAFETY PRACTICE. KEEP AWAY FROM HEAT, SPARKS, OPEN FLAMES AN 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 O SMOKE WHEN USING THIS PRODUCT.  KEEP THE PRODUCT CONTAINER TIGHTLY CLOSED, IN A DRY, VENTILATED AREA. KEEP AWAY FROM POTENTIAL SOURCES OF		



Chemical Name	European Union	United Kingdom	France	Spain	Germany
gamma-Terpinene 99-85-4	-	-	TWA: 1000 mg/m <sup>3</sup> STEL: 1500 mg/m <sup>3</sup>	-	-
alpha-Terpinene 99-86-5	1	-	TWA: 1000 mg/m <sup>3</sup> STEL: 1500 mg/m <sup>3</sup>	ı	-
Sabinene 3387-41-5	•	-	TWA: 1000 mg/m <sup>3</sup> STEL: 1500 mg/m <sup>3</sup>		-
d-Limonene 5989-27-5	-	-	TWA: 1000 mg/m <sup>3</sup> STEL: 1500 mg/m <sup>3</sup>	S* TWA: 30 ppm TWA: 168 mg/m <sup>3</sup>	TWA: 5 ppm TWA: 28 mg/m <sup>3</sup> Ceiling / Peak: 20 ppm Ceiling / Peak: 112

					Ceiling / Peak: 112
		I	1	1	
					mg/m³
	1				Skin
Terpinolene	-	-	TWA: 1000 mg/m <sup>3</sup>	-	-
586-62-9			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>		
beta-Phellandrene	-	-	TWA: 1000 mg/m <sup>3</sup>	-	-
555-10-2			STEL: 1500 mg/m <sup>3</sup>		
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>		
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>	
alpha-Phellandrene	-	-	TWA: 1000 mg/m <sup>3</sup>	-	-
99-83-2			STEL: 1500 mg/m <sup>3</sup>		
trans beta-Ocimene	-	-	TWA: 1000 mg/m <sup>3</sup>	-	-
3779-61-1			STEL: 1500 mg/m <sup>3</sup>		
Camphene	-	-	TWA: 1000 mg/m <sup>3</sup>	-	-
79-92-5			STEL: 1500 mg/m <sup>3</sup>		
Chemical Name	Italy	Portugal	Netherlands	Finland	Denmark
d-Limonene	-	-	-	TWA: 25 ppm	-
5989-27-5				TWA: 140 mg/m <sup>3</sup>	
				STEL: 50 ppm STEL: 280 mg/m <sup>3</sup>	
para-Cymene	-	-	-	31EL. 200 Hig/III-	TWA: 25 ppm
99-87-6	1 -	-	-	-	TWA: 135 mg/m <sup>3</sup>
alpha-Pinene	-	TWA: 20 ppm	-	-	TVVA. 100 mg/m
80-56-8	1	TWA. 20 ppili	-	_	=
beta-Pinene	<u> </u>	TWA: 20 ppm	-	-	
127-91-3		1 VVA. 20 ppin			_
Chemical Name	Austria	Switzerland	Poland	Norway	Ireland
d-Limonene	-	STEL: 14 ppm	-	TWA: 25 ppm	-
5989-27-5		STEL: 80 mg/m <sup>3</sup>		TWA: 140 mg/m <sup>3</sup>	
		TWA: 7 ppm		STEL: 37.5 ppm	
		TWA: 40 mg/m <sup>3</sup>		STEL: 175 mg/m <sup>3</sup>	
Myrcene	-	-	-	TWA: 40 ppm	-
123-35-3				TWA: 275 mg/m <sup>3</sup>	
				STEL: 60 ppm	
				STEL: 343.75 mg/m <sup>3</sup>	
alpha-Pinene	-	Skin	-	TWA: 25 ppm	-
80-56-8		STEL: 40 ppm		TWA: 140 mg/m <sup>3</sup>	
		STEL: 224 mg/m <sup>3</sup>		Skin	
		TWA: 20 ppm		STEL: 37.5 ppm	
		TWA: 112 mg/m <sup>3</sup>		STEL: 175 mg/m <sup>3</sup>	
beta-Pinene	-	Skin	-	TWA: 25 ppm	-
127-91-3	1	STEL: 40 ppm		TWA: 140 mg/m <sup>3</sup>	
	1	STEL: 224 mg/m <sup>3</sup>		STEL: 37.5 ppm	
	1	TWA: 20 ppm		STEL: 175 mg/m <sup>3</sup>	
0		TWA: 112 mg/m <sup>3</sup>			
Camphene	-	Skin	-	-	-
79-92-5	1	STEL: 40 ppm			
		STEL: 224 mg/m <sup>3</sup>			
		TWA: 20 ppm TWA: 112 mg/m <sup>3</sup>			

CONTROL PARAMETERS

8.2 EXPOSURE CONTROLS			
	W/m		
			•
		VA	

EYE PROTECTION	Wear protective gloves/eye protection/face protection.
HAND PROTECTION	WEAR PROTECTIVE GLOVES/EYE PROTECTION/FACE PROTECTION.
	Under normal conditions of use and where adequate ventilation is available to prevent build up of excessive
RESPIRATORY EQUIPMENT	vapour, this material should not require special engineering controls. However, in conditions of high or
RESTRATORT EQUI MENT	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.
	ATTO DE DICE DATE OF THE DESIGNATION OF THE DESIGNA

SECTION 9: PHYSICAL & CHEMICAL PROPERTIES	
9.1 PHYSICAL & CHEMICAL PROPERTIES	
APPEARANCE	CLEAR
COLOUR	COLOURLESS – ALMOST COLOURLESS
ODOUR	CHARACTERISTIC
RELATIVE DENSITY	0.890 - 0.906 @ 25°C
FLASH POINT (°C)	59°C
Refractive Index @ 20 °C	1.4700 – 1.4750 @ 20°C
SOLUBILITY IN WATER @ 20 °C	NO DATA.
9.2 OTHER INFORMATION	NO DATA.
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°C).
10.3 Possibility of hazardous reactions	NOT EXPECTED UNDER NORMAL CONDITIONS OF USE.
10.4 CONDITIONS TO AVOID	HEAT, FLAMES AND SPARKS.
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		
Acute Toxicity	HARMFUL IF SWALLOWED	
Skin irritation	Causes skin irritation.	



	1			
EYE DAMAGE OR IRRITATION	Causes serious eye irritation			
RESPIRATORY OR SKIN SENSITIVITY	MAY CAUSE SENSITISATION BY SKIN CONTACT			
GERM CELL MUTAGENICITY	NOY CLASSIFIED.			
CARCINOGENICITY	Noy classified.			
REPRODUCTIVE TOXICITY	Noy classified.			
STOT – SINGLE EXPOSURE	Noy classified.			
STOT — REPEATED EXPOSURE	Noy classified.			
ASPIRATION HAZARD	MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS.			
OTHER INFORMATION	NO DATA.			
SECTION 12: ECOLOGICAL INFORMATION				
	TOXIC TO AQUATIC LIFE	WITH LONG LASTING EFFECT	TS.	
	THE PRODUCT MUST NOT BE ALLOWED TO RUN INTO DRAINS OR WATERWAYS.			
	Chemical Name Linalool	Crustacea 48hr EC50 - 59mg/L (Daphnia magna)	Algae/aquatic plants 96hr EC50 - 156.7 mg/L; EC10 or NOEC - 54.3 mg/L (Desmodesmus subspicatus)	Fish 96hr LC50 - 27.8mg/L (Salmo gairdneri)
12.1	d-Limonene	48hr EC50 - 0.4 mg/L (Daphnia magna)	96 hr NOEC - 4mg/L (Green algae)	96hr LC50 - 0.7mg/L (Pimephales promelas)
Toxicity	alpha-Terpineol para-Cymene		72hr EC50 - 68mg/l 48hr EC50 - 100 mg/L	96hr LC50 - 62 to 80 mg/L 96hr LC50 - 48 mg/L (Cyprinodon
	para-cymene	1.4 mg/L (Scenedesmus capricornutum)	Horii 2000 - 100 mg/2	variegatus)
	alpha-Pinene	41: 48 h Daphnia magna mg/L LC50		0.28: 96 h Pimephales promelas mg/L LC50 static
	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 static
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	DO NOT ALLOW PRODUCT TO ENTER STREAMS, SEWERS OR OTHER WATERWAYS.			
SECTION 13: DISPOSAL INFORMATION				
13.1 WASTE TREATMENT METHODS		ED PRODUCT. DISCARD WAS		

SECTION 14: TRANSPORT INFORMATION		
14.1 TRANSPORT INFORMATION		
	ROAD: 1169	
UN Number	RAIL: 1169	
	AIR: 1169	
14.2 UN SHIPPING NAME	UN1169=EXTRACTS, AROMA	TIC, LIQUID
14.3	ADR/RID/ADN CLASS:	3: FLAMMABLE LIQUID
TRANSPORT HAZARD CLASS(ES)	IMDG CLASS: ICAO CLASS/DIVISION: 3	3

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	TRANSPORT	LABELS					
	FLAMMABLE 3	LIQUID					
14.4	None.						
PACKING GROUP		MENTALLY H	IAZARDOUS	/ MARINE POLL	UTANT.		
14.5 ENVIROMENTAL HAZARDS	ENVIRONMENTALLY HAZARDOUS / MARINE POLLUTANT.						
	ADR/RID		IMDG		IATA		
	Class:	3	Class:	3	Class:	3	
	Code:	F1	2°Label:	-	2°Label:	-	
	Pack Grp:	Ш	Pack Grp:	III	Pack Grp:	III	
	Label:	3	LQ	5L	Passager:	355	Y344
	Ident:	-	EMS	F-E, S-D	Passager:	60L	10L
	LQ	5L	Provis:	223 955	Cargo:	366	-
14.6	Provis.	601	EQ	E1	Cargo:	220L	-
SPECIAL PRECAUTIONS FOR USER	EQ	E1			Note:	А3	A3
	Cat	3			EQ:	E1	E1
	Tunnel	E					
	For limited quantities, see part 2.7 of the OACI/IATA and chapter 3.4 of the ADR and IMDG.						
	For excepted quantities, see part 2.6 of the OACI/IATA and chapter 3.5 of the ADR and IMDG.						
14.7 TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL73/78 & THE IBC CODE.	NO DATA						
SECTION 15: REGULATORY INFORMATION							
SECTION 13: REGULATORT 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 $18^{\text{th}}$						
	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					FOR SUPPLY REGUL		
	No 716).						
APPROVED CODE OF PRACTICE	CLASSIFICAT	ION & LABELL	ING OF SUBSTA	ANCES & PREPARA	ATIONS DANGEROU	S FOR SU	JPPLY. SAFETY DATA

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	SHEETS FOR SUBSTANCES & PREPARATIONS.
GUIDANCE NOTES	WORKPLACE EXPOSURE LIMITS EH40. CHIP FOR EVERYONE HSG 108.
15.2	
CHEMICAL SAFETY ASSESSMENT	•

Hazard and/ or Precautionary Statements in full	H226 - FLAMMABLE LIQUID AND VAPOR H227 - COMBUSTIBLE LIQUID H228 - FLAMMABLE SOLID H302 - HARMFUL IF SWALLOWED H303 - MAY BE HARMFUL IF SWALLOWED H304 - MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS H313 - MAY BE HARMFUL IN CONTACT WITH SKIN H315 - CAUSES SKIN IRRITATION H316 - CAUSES SKIN IRRITATION H317 - MAY CAUSE AN ALLERGIC SKIN REACTION H319 - CAUSES SERIOUS EYE IRRITATION H320 - CAUSES 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 H411 - TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS H411 - TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS H413 - MAY CAUSE LONG LASTING HARMFUL EFFECTS TO AQUATIC LIFE		
TRAINING INSTRUCTIONS: REFER TO POSSIBLE HAZARD BEFORE USE OF THIS PRODUCT.			
ABBREVIATIONS & ACRONYMS:			
MSDS	MATERIAL SAFETY DATA SHEET.		
MSDS INCI	MATERIAL SAFETY DATA SHEET.  INTERNATIONAL NOMENCLATURE OF COSMETIC INGREDIENTS.		
INCI	International Nomenclature of Cosmetic Ingredients.		
INCI CAS IMDG	INTERNATIONAL NOMENCLATURE OF COSMETIC INGREDIENTS.  CHEMICAL ABSTRACT SERVICE.		
INCI CAS	INTERNATIONAL NOMENCLATURE OF COSMETIC INGREDIENTS.  CHEMICAL ABSTRACT SERVICE.  INTERNATIONAL MARITIME CODE FOR DANGEROUS GOODS.		
INCI CAS IMDG	INTERNATIONAL NOMENCLATURE OF COSMETIC INGREDIENTS.  CHEMICAL ABSTRACT SERVICE.  INTERNATIONAL MARITIME CODE FOR DANGEROUS GOODS.  ACCORD EUROPEAN SUR LE TRANSPORT DES MERCHANDISES DANGEREUSES PAR ROUTE (EUROPEAN		
INCI CAS IMDG ADR	INTERNATIONAL NOMENCLATURE OF COSMETIC INGREDIENTS.  CHEMICAL ABSTRACT SERVICE.  INTERNATIONAL MARITIME CODE FOR DANGEROUS GOODS.  ACCORD EUROPEAN SUR LE TRANSPORT DES MERCHANDISES DANGEREUSES PAR ROUTE (EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY ROAD).		
INCI CAS IMDG ADR RID	INTERNATIONAL NOMENCLATURE OF COSMETIC INGREDIENTS.  CHEMICAL ABSTRACT SERVICE.  INTERNATIONAL MARITIME CODE FOR DANGEROUS GOODS.  ACCORD EUROPEAN SUR LE TRANSPORT DES MERCHANDISES DANGEREUSES PAR ROUTE (EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY ROAD).  INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY RAIL.		
INCI CAS IMDG ADR RID ICAO	INTERNATIONAL NOMENCLATURE OF COSMETIC INGREDIENTS.  CHEMICAL ABSTRACT SERVICE.  INTERNATIONAL MARITIME CODE FOR DANGEROUS GOODS.  ACCORD EUROPEAN SUR LE TRANSPORT DES MERCHANDISES DANGEREUSES PAR ROUTE (EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY ROAD).  INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY RAIL.  INTERNATIONAL CIVIL AVIATION ORGANIZATION.		
INCI CAS IMDG ADR RID ICAO AND	INTERNATIONAL NOMENCLATURE OF COSMETIC INGREDIENTS.  CHEMICAL ABSTRACT SERVICE.  INTERNATIONAL MARITIME CODE FOR DANGEROUS GOODS.  ACCORD EUROPEAN SUR LE TRANSPORT DES MERCHANDISES DANGEREUSES PAR ROUTE (EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY ROAD).  INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY RAIL.  INTERNATIONAL CIVIL AVIATION ORGANIZATION.  INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY INLAND WATERWAYS.		

DOCUMENTATION REVISION			
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10™ APRIL 2018	Data Launch		
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