



SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING					
1.1					
PRODUCT IDENTIFICATION					
PRODUCT NAME	THYME SWEET (LINALOOL), ESSENTIAL OIL ORGANIC				
BIOLOGICAL DEFINITION					
INCI NAME	THYMUS VULGARIS LEAF				
SYNONYMS & TRADE NAMES	-				
INTERNAL PRODUCT CODE	K0464				
CAS-No	91770-75-1	EC No.	284-535-7	EINECS No.	284-535-7
1.2					
DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET					
COMPANY ADDRESS	ECODROP LIMITED, PEMBROKE LODGE, 3 PEMBROKE ROAD, RUISLIP, HA4 8NQ				
EMAIL	SUPPORT@ECODROP.CO.UK				
1.3					
DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET					
EMERGENCY CONTACTS	+44 (0)7732 546773				

SECTION 2: HAZARDS IDENTIFICATION	
2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE	THE FULL TEXT FOR ALL HAZARD STATEMENTS IS DISPLAYED IN SECTION 16.
CLASSIFICATION (67/548/EEC)	NO ADDITIONAL DATA AVAILABLE.
CLASSIFICATION (EU1272/2008)	PHYSICAL AND CHEMICAL HAZARDS: NOT CLASSIFIED. HUMAN HEALTH: EYE IRRIT. 2: EYE IRRITATION, CATEGORY 2, H319. SKIN IRRIT. 2: SKIN IRRITATION, CATEGORY 2, H315. SKIN SENS. 1: SENSITISATION, SKIN, CATEGORY 1, H317. ENVIRONMENT: AQUATIC CHRONIC 2: HAZARDOUS TO THE AQUATIC ENVIRONMENT LONG-TERM HAZARD, CATEGORY 2, H411.
2.2 LABEL ELEMENTS	LABEL IN ACCORDANCE WITH REGULATION (EC) No 1272/2008.
GHS LABEL	  GHS07 GHS09
SIGNAL WORD	WARNING.
CONTAINS	-
HAZARDS STATEMENT	H411 - TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS. H319 - CAUSES SERIOUS EYE IRRITATION. H315 - CAUSES SKIN IRRITATION. H317 - MAY CAUSE AN ALLERGIC SKIN REACTION.
PRECAUTIONARY STATEMENTS	P261: AVOID BREATHING DUST/FUME/GAS/MIST/VAPOURS/SPRAY. P264: WASH THOROUGHLY AFTER USE. P273: AVOID RELEASE TO THE ENVIRONMENT. P280: WEAR PROTECTIVE GLOVES/PROTECTIVE CLOTHING/EYE PROTECTION/FACE PROTECTION. P302+P352: IF ON SKIN: WASH WITH PLENTY OF 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. P333+P313: IF SKIN IRRITATION OR RASH OCCURS: GET MEDICAL ADVICE/ATTENTION. P337+P313: IF EYE IRRITATION PERSISTS: GET MEDICAL ADVICE/ATTENTION. P391: COLLECT SPILLAGE. P501: DISPOSE OF CONTENTS AND / OR CONTAINERS IN ACCORDANCE WITH REGULATIONS ON HAZARDOUS WASTE OR PACKAGING AND PACKAGING WASTE RESPECTIVELY.
SUPPLEMENTARY PRECAUTIONARY STATEMENTS	EUH208: CONTAINS (-)-PIN-2(10)-ENE. MAY PRODUCE AN ALLERGIC REACTION.
SECTION 16 (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	

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3.2 MIXTURES	<p>30-40% LINALOOL CAS-No: 78-70-6 EC-No: 201-134-4 CLASSIFICATION (EC 1272/2008): EYE IRRIT. 2: H319; SKIN IRRIT. 2: H315 - WARNING</p>
	<p>10-20% P-MENTH-1-EN-4-OL CAS-No: 562-74-3 EC-No: 209-235-5 CLASSIFICATION (EC 1272/2008): ACUTE TOX. 4: H302; EYE IRRIT. 2: H319; SKIN IRRIT. 2: H315 - WARNING</p>
	<p>7-10% 7-METHYL-3-METHYLENEOCTA-1,6-DIENE CAS-No: 123-35-3 EC-No: 204-622-5 CLASSIFICATION (EC 1272/2008): ASP. TOX. 1: H304; EYE IRRIT. 2: H319; FLAM. LIQ. 3: H226; SKIN IRRIT. 2: H315 - DANGER</p>
	<p>4-7% P-MENTHA-1,3-DIENE CAS-No: 99-86-5 EC-No: 202-795-1 CLASSIFICATION (EC 1272/2008): ACUTE TOX. 4: H302; AQUATIC CHRONIC 2: H411; ASP. TOX. 1: H304; FLAM. LIQ. 3: H226 - DANGER</p>
	<p>1-4% PIN-2(3)-ENO CAS-No: 80-56-8 EC-No: 201-291-9 CLASSIFICATION (EC 1272/2008): ASP. TOX. 1: H304; FLAM. LIQ. 3: H226; SKIN IRRIT. 2: H315; SKIN SENS. 1B: H317 - DANGER</p>
	<p>0.5-4% L-LIMONENE CAS-No: 99-87-6 EC-No: 227-815-6 CLASSIFICATION (EC 1272/2008): AQUATIC ACUTE 1: H400; AQUATIC CHRONIC 1: H410; FLAM. LIQ. 3: H226; SKIN IRRIT. 2: H315; SKIN SENS. 1: H317 - WARNING</p>
	<p>1-4% P-CIMENO CAS-No: 99-87-6 EC-No: 202-796-7 CLASSIFICATION (EC 1272/2008): ASP. TOX. 1: H304; EYE IRRIT. 2: H319; FLAM. LIQ. 3: H226; SKIN IRRIT. 2: H315;</p>
<p>1-4% CAMPHENE CAS-No: 79-92-5 EC-No: 201-234-8 CLASSIFICATION (EC 1272/2008): AQUATIC ACUTE 1: H400; AQUATIC CHRONIC 1: H410; EYE IRRIT. 2: H319; FLAM. SOL. 2: H228 - WARNING</p>	
<p><1% (-)-PIN-2(10)-ENE CAS-No: 242-060-2 EC-No: 18172-67-3 CLASSIFICATION (EC 1272/2008): AQUATIC ACUTE 1: H400; AQUATIC CHRONIC 1: H410; ASP. TOX. 1: H304; FLAM. LIQ. 3: H226; SKIN IRRIT. 2: H315; SKIN SENS. 1B: H317 - DANGER</p>	

SECTION 4: FIRST AID MEASURES

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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.
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

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There are no occupational exposure limits for the substances contained in the product.

DNEL (Workers):

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
Linalool	Oral	n/a	n/a	n/a	n/a
CAS: 78-70-6	Dermal	5mg/kg	n/a	2.5mg/kg	n/a
EC: 201-134-4	Inhalation	16.5 mg/m ³	n/a	2.8mg/m ³	n/a
7-methyl-3-methylene					
octa-1,6-diene	Oral	n/a	n/a	n/a	n/a
CAS: 123-35-3	Dermal	n/a	n/a	0.83mg/kg	n/a
EC: 204-622-5	Inhalation	n/a	n/a	5.83mg/m ³	n/a
Pin-2(3)-eno	Oral	n/a	n/a	n/a	n/a
CAS:50-56-8	Dermal	n/a	n/a	n/a	n/a
EC: 201-291-9	Inhalation	n/a	n/a	5.98mg/m ³	n/a
l-Limonene	Oral	n/a	n/a	n/a	n/a
CAS: 5989-27-5	Dermal	n/a	n/a	n/a	n/a
EC: 227-813-5	Inhalation	n/a	n/a	33.3mg/m ³	n/a
Camphene	Oral	n/a	n/a	n/a	n/a
CAS:79-92-5	Dermal	1.25mg/kg	n/a	0.21mg/kg	n/a
EC:201-234-8	Inhalation	110.19 mg/m ³	n/a	110.19 mg/m ³	n/a

**8.1
CONTROL PARAMETERS**

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There are no occupational exposure limits for the substances contained in the product.

DNEL (Workers):

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
Linalool	Oral	n/a	n/a	n/a	n/a
CAS: 78-70-6	Dermal	5mg/kg	n/a	2.5mg/kg	n/a
EC: 201-134-4	Inhalation	16.5 mg/m ³	n/a	2.8mg/m ³	n/a
7-methyl-3-methylene					
octa-1,6-diene	Oral	n/a	n/a	n/a	n/a
CAS: 123-35-3	Dermal	n/a	n/a	0.83mg/kg	n/a
EC: 204-622-5	Inhalation	n/a	n/a	5.83mg/m ³	n/a
Pin-2(3)-eno					
CAS:50-56-8	Dermal	n/a	n/a	n/a	n/a
EC: 201-291-9	Inhalation	n/a	n/a	5.98mg/m ³	n/a
l-Limonene					
CAS: 5989-27-5	Dermal	n/a	n/a	n/a	n/a
EC: 227-813-5	Inhalation	n/a	n/a	33.3mg/m ³	n/a
Camphene					
CAS:79-92-5	Dermal	1.25mg/kg	n/a	0.21mg/kg	n/a
EC:201-234-8	Inhalation	110.19 mg/m ³	n/a	110.19 mg/m ³	n/a

8.2 EXPOSURE CONTROLS



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EYE PROTECTION	MANDATORY FACE PROTECTION. PPE: FACE MASK LABELLING: CE CAT II CEN STANDARD: EN 166:2001, EN 167:2001, EN 168:2001, EN ISO 4007:2012 REMARKS: CLEAN DAILY AND DISINFECT PERIODICALLY ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS. USE IF THERE IS A RISK OF SPLASHING.
HAND PROTECTION	MANDATORY HAND PROTECTION. PPE: PROTECTIVE GLOVES AGAINST MINOR RISKS. LABELLING: CE CAT I CEN STANDARD: EN 374-1:2003, EN 374-3:2003/AC:2006, EN 420:2003+A1:2009 REMARKS: THE BREAKTHROUGH TIME INDICATED BY THE MANUFACTURER MUST EXCEED THE PERIOD DURING WHICH THE PRODUCT IS BEING USED. DO NOT USE PROTECTIVE CREAMS AFTER THE PRODUCT HAS COME INTO CONTACT WITH SKIN.
RESPIRATORY EQUIPMENT	MANDATORY TRACT PROTECTION. PPE: FILTER MASK FOR GASES AND VAPOURS. LABELLING: CE CAT III . CEN STANDARD: EN 405:2001+A1:2009. REMARKS: REPLACE WHEN THERE IS A TASTE OR SMELL OF THE CONTAMINANT INSIDE THE FACE MASK. IF THE CONTAMINANT COMES WITH WARNINGS IT IS RECOMMENDED TO USE ISOLATION EQUIPMENT.
HYGIENE MEASURES	GOOD PERSONAL HYGIENE PRACTICES ARE ALWAYS ADVISABLE, ESPECIALLY WHEN WORKING WITH CHEMICALS/OILS.
ENGINEERING MEASURES	PROVIDE ADEQUATE VENTILATION.
SKIN PROTECTION	PPE: WORK CLOTHING LABELLING: CE CAT I
PERSONAL PROTECTION	USE PERSONAL PROTECTION ACCORDING TO DIRECTIVE 89/686/EEC.
OTHER PROTECTION	PPE: ANTI-SLIP WORK SHOES LABELLING: CE CAT I CEN STANDARD: EN ISO 20347:2012
PROCESS CONDITIONS	ENSURE AREA IS WELL VENTILATED. AVOID VAPOUR INHALATION. SAFETY SHOWER & EYE BATH.
ENVIRONMENTAL EXPOSURE CONTROLS	IN ACCORDANCE WITH THE COMMUNITY LEGISLATION FOR THE PROTECTION OF THE ENVIRONMENT IT IS RECOMMENDED TO AVOID ENVIRONMENTAL SPILLAGE OF BOTH THE PRODUCT AND ITS CONTAINER. FOR ADDITIONAL INFORMATION SEE SUBSECTION 7.1.D VOLATILE ORGANIC COMPOUNDS: WITH REGARD TO DIRECTIVE 2010/75/EU, THIS PRODUCT HAS THE FOLLOWING CHARACTERISTICS: V.O.C. (SUPPLY): 79.14% WEIGHT V.O.C. DENSITY AT 20 °C: 694.85 KG/M ³ (694.85 G/L) AVERAGE CARBON NUMBER: 10 AVERAGE MOLECULAR WEIGHT: 147.75 G/MOL

SECTION 9: PHYSICAL & CHEMICAL PROPERTIES

9.1 PHYSICAL & CHEMICAL PROPERTIES	
APPEARANCE	LIQUID
COLOUR	PALE YELLOW - YELLOW
ODOUR	CHARACTERISTIC
RELATIVE DENSITY	0.869 – 0.881 @ 20°C
FLASH POINT (°C)	66°C

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REFRACTIVE INDEX @ 20 °C	1.466 - 1.472 @ 20°C
SOLUBILITY IN WATER @ 20 °C	SOLUBILITY AT 20°C IN ALCOHOL 80%: 1:1 CLEAR + OPALESCENT
9.2 OTHER INFORMATION	NO DATA.
SECTION 10: STABILITY & REACTIVITY	
10.1 REACTIVITY	COMBUSTIBLE.
10.2 CHEMICAL STABILITY	STABLE UNDER SUGGESTED STORAGE CONDITIONS (<15°C).
10.3 POSSIBILITY OF HAZARDOUS REACTIONS	NO.
10.4 CONDITIONS TO AVOID	APPLICABLE FOR HANDLING AND STORAGE AT ROOM TEMPERATURE: SHOCK & FRICTION: N/A CONTACT WITH AIR: N/A INCREASE IN TEMPERATURE: RISK OF COMBUSTION. SUNLIGHT: AVOID DIRECT IMPACT. HUMIDITY: N/A
10.5 INCOMPATIBLE MATERIALS	ACIDS: AVOID STRONG ACIDS. WATER: N/A COMBUSTIVE MATERIALS: AVOID DIRECT IMPACT. COMBUSTIBLE MATERIALS: N/A OTHERS: AVOID ALKALIS OR STRONG BASES.
10.6 HAZARDOUS DECOMPOSITION PRODUCTS	CARBON MONOXIDE AND CARBON DIOXIDE

SECTION 11: TOXICOLOGICAL INFORMATION	
11.1 TOXICOLOGICAL EFFECTS	
	<p>THE EXPERIMENTAL INFORMATION RELATED TO THE TOXICOLOGICAL PROPERTIES OF THE PRODUCT ITSELF IS NOT AVAILABLE.</p> <p>SPECIFIC TOXICOLOGY ON SUBSTANCES;</p> <p>PIN-2(3)-ENO CAS: 80-56-8 EC: 201-291-9 LD50 ORAL (RAT): 3700 MG/KG LD50 DERMAL (RABBIT): 5100 MG/KG LC50 INHALATION: > 20 MG/KG (4HR)</p> <p>CAMPHENE CAS: 79-92-5 EC: 201-234-8 LD50 ORAL (RAT): 5500 MG/KG LD50 DERMAL (RABBIT): 8189 MG/KG LC50 INHALATION: > 5 MG/KG (4HR)</p> <p>7-METHYL-3-METHYLENEOCTA-1,6-DIENE CAS: 123-35-3 EC: 204-622-5 ACUTE TOXICITY LD50 ORAL >2000 MG/KG LD50 DERMAL >2000 MG/KG LC50 INHALATION >20 MG/L (4H)</p> <p>P-MENTHA-1,3-DIENE CAS: 99-86-5 EC: 202-795-1 LD50 ORAL (RAT) 1680 MG/KG LD50 DERMAL >2000 MG/KG LC50 INHALATION >20 MG/L (4H)</p> <p>L-LIMONENE CAS: 5989-54-8 EC: 227-815-6 LD50 ORAL >2000 MG/KG LC50 INHALATION >20 MG/L (4H) LD50 DERMAL >2000 MG/KG</p>

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	<p>LINALOOL CAS: 78-70-6 EC: 201-134-4 LD50 ORAL (RAT) 3000 MG/KG LD50 DERMAL (RABBIT) 5610 MG/KG LC50 INHALATION >20 MG/L (4 H)</p> <p>P-CIMENO CAS: 99-87-6 EC: 202-796-7 LD50 ORAL (RAT) 4750 MG/KG LD50 DERMAL >2000 MG/KG LC50 INHALATION >20 MG/L (4 H)</p> <p>P-MENTH-1-EN-4-OL CAS: 562-74-3 EC: 209-235-5 LC50 LD50 ORAL (RAT) 1300 MG/KG LD50 DERMAL 2500 MG/KG INHALATION >20 MG/L (4 H)</p> <p>(-)-PIN-2(10)-ENE CAS: 18172-67-3 EC: 242-060-2 LD50 ORAL (RAT) 4800 MG/KG LD50 DERMAL >2000 MG/KG LC50 INHALATION >20 MG/L</p>
SKIN IRRITATION	<p>INGESTION (ACUTE EFFECT) - ACUTE TOXICITY: BASED ON AVAILABLE DATA, THE CLASSIFICATION CRITERIA ARE NOT MET, HOWEVER, IT CONTAINS SUBSTANCES CLASSIFIED AS DANGEROUS FOR CONSUMPTION. FOR MORE INFORMATION SEE SECTION 3. - CORROSIVITY/IRRITABILITY: THE CONSUMPTION OF A CONSIDERABLE DOSE CAN CAUSE IRRITATION IN THE THROAT, ABDOMINAL PAIN, NAUSEA AND VOMITING.</p> <p>CONTACT WITH THE SKIN: PRODUCES SKIN INFLAMMATION.</p>
EYE DAMAGE OR IRRITATION	BURNS.
RESPIRATORY OR SKIN SENSITIVITY	<p><i>INHALATION (ACUTE EFFECT)</i> - ACUTE TOXICITY: BASED ON AVAILABLE DATA, THE CLASSIFICATION CRITERIA ARE NOT MET, AS IT DOES NOT CONTAIN SUBSTANCES CLASSIFIED AS DANGEROUS FOR INHALATION. FOR MORE INFORMATION SEE SECTION 3. - CORROSIVITY/IRRITABILITY: BASED ON AVAILABLE DATA, THE CLASSIFICATION CRITERIA ARE NOT MET, HOWEVER, IT CONTAINS SUBSTANCES CLASSIFIED AS DANGEROUS FOR INHALATION. FOR MORE INFORMATION SEE SECTION 3.</p> <p><i>SENSITISING EFFECTS:</i> - RESPIRATORY: BASED ON AVAILABLE DATA, THE CLASSIFICATION CRITERIA ARE NOT MET, AS IT DOES NOT CONTAIN SUBSTANCES CLASSIFIED AS DANGEROUS WITH SENSITISING EFFECTS. FOR MORE INFORMATION SEE SECTION 3. - CUTANEOUS: PROLONGED CONTACT WITH THE SKIN CAN RESULT IN EPISODES OF ALLERGIC CONTACT DERMATITIS.</p>
GERM CELL MUTAGENICITY	MUTAGENICITY: BASED ON AVAILABLE DATA, THE CLASSIFICATION CRITERIA ARE NOT MET, AS IT DOES NOT CONTAIN SUBSTANCES CLASSIFIED AS DANGEROUS FOR THIS EFFECT. FOR MORE INFORMATION SEE SECTION 3.
CARCINOGENICITY	CARCINOGENICITY: BASED ON AVAILABLE DATA, THE CLASSIFICATION CRITERIA ARE NOT MET, AS IT DOES NOT CONTAIN SUBSTANCES CLASSIFIED AS DANGEROUS FOR THE EFFECTS MENTIONED. FOR MORE INFORMATION SEE SECTION 3.
REPRODUCTIVE TOXICITY	REPRODUCTIVE TOXICITY: BASED ON AVAILABLE DATA, THE CLASSIFICATION CRITERIA ARE NOT MET, AS IT DOES NOT CONTAIN SUBSTANCES CLASSIFIED AS DANGEROUS FOR THIS EFFECT. FOR MORE INFORMATION SEE SECTION 3.
STOT – SINGLE EXPOSURE	CAUSES IRRITATION IN RESPIRATORY PASSAGES, WHICH IS NORMALLY REVERSIBLE AND LIMITED TO THE UPPER RESPIRATORY PASSAGES.
STOT – REPEATED EXPOSURE	SPECIFIC TARGET ORGAN TOXICITY (STOT)-REPEATED EXPOSURE: BASED ON AVAILABLE DATA, THE CLASSIFICATION CRITERIA ARE NOT MET, AS IT DOES NOT CONTAIN SUBSTANCES CLASSIFIED AS DANGEROUS FOR THIS EFFECT. FOR MORE INFORMATION SEE SECTION 3.

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	- SKIN: BASED ON AVAILABLE DATA, THE CLASSIFICATION CRITERIA ARE NOT MET, AS IT DOES NOT CONTAIN SUBSTANCES CLASSIFIED AS DANGEROUS FOR THIS EFFECT. FOR MORE INFORMATION SEE SECTION 3.
ASPIRATION HAZARD	DAMAGE OF THE RESPIRATORY TRACT. BURNS THE MUCOUS MEMBRANES ON THE MOUTH, PHARYNX, OESOPHAGUS AND GASTROINTESTINAL TRACT.
OTHER INFORMATION	FURTHER HAZARDOUS PROPERTIES CANNOT BE EXCLUDED. NORMAL SAFETY PRECAUTIONS FOR HANDLING CHEMICAL PRODUCTS SHOULD ALWAYS BE OBSERVED.

SECTION 12: ECOLOGICAL INFORMATION

12.1 TOXICITY	Camphene	CAS: 79-92-5 EC: 201-234-8		
	LC50	0.72 mg/L (96 h)	Brachydanio rerio	(Fish)
	EC50	46 mg/L (24 h)	Daphnia magna	(Crustacean)
	EC50	n/a		(Algae)
	p-cimeno	CAS: 99-87-6 EC: 202-796-7		
	LC50	48 mg/L (96 h)	Cyprionodon variegatus	(Fish)
	EC50	6.5 mg/L (48 h)	Daphnia magna	(Crustacean)
	EC50	n/a		(Algae)
	l-Limonene	CAS: 5989-54-8 EC: 227-815-6		
	LC50	0.1 - 1 mg/L (96 h)		(Fish)
	EC50	0.1 - 1 mg/L		(Crustacean)
	EC50	0.1 - 1 mg/L		(Algae)
	P-mentha-1,3-diene	CAS: 99-86-5 EC: 202-795-1		
	LC50	1 - 10 mg/L (96 h)		(Fish)
	EC50	1 - 10 mg/L		(Crustacean)
	EC50	1 - 10 mg/L		(Algae)
	Linalool	CAS: 78-70-6 EC: 201-134-4		
	LC50	27.8 mg/L (96 h)	Oncorhynchus mykiss	(Fish)
	EC50	59 mg/L (48 h)	Daphnia magna	(Crustacean)
	EC50	88.3 mg/L (96 h)	Scenedesmus subspicatus	(Algae)

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**12.2
PERSISTENCE & DEGRADABILITY**

<i>Identification:</i>	<i>Degradability</i>		<i>Biodegradability</i>
Linalool	BOD5	n/a	Concentration 100 mg/L
CAS: 78-70-6	COD	n/a	Period 28 days
EC: 201-134-4	BOD5/COD	0.55	%Biodegradable 90 %
7-methyl-3-methyleneocta			
-1,6-diene	BOD5	n/a	Concentration 100 mg/L
CAS: 123-35-3	COD	n/a	Period 14 days
EC: 204-622-5	BOD5/COD	n/a	% Biodegradable 86 %
Pin-2(3)-eno			
	BOD5	n/a	Concentration 100 mg/L
CAS: 80-56-8	COD	n/a	Period 28 days
EC: 201-291-9	BOD5/COD	n/a	% Biodegradable 95 %
p-cimeno			
	BOD5	n/a	Concentration 100 mg/L
CAS: 99-87-6	COD	n/a	Period 14 days
EC: 202-796-7	BOD5/COD	n/a	% Biodegradable 88 %
Camphene			
	BOD5	n/a	Concentration 100 mg/L
CAS: 79-92-5	COD	n/a	Period 28 days
EC: 201-234-8	BOD5/COD	n/a	% Biodegradable 4 %
(-)-pin-2(10)-ene			
	BOD5	n/a	Concentration 2 mg/L
CAS: 18172-67-3	COD	n/a	Period 28 days

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**12.3
BIO- ACCUMULATIVE POTENTIAL**

<i>Identificaton:</i>	<i>Bioaccumulation Potential:</i>	
Linalool	BCF	39
CAS: 78-70-6	Pow Log	2.97
EC: 201-134-4	Potential	Moderate
7-methyl-3-methyleneocta-1,6-diene	BCF	324
CAS: 123-35-3	Pow Log	5.29
EC: 204-622-5	Potential	High
Pin-2(3)-eno	BCF	2800
CAS: 80-56-8	Pow Log	4.83
EC: 201-291-9	Potential	Very High
p-cimeno	BCF	286
CAS: 99-87-6	Pow Log	4.1
EC: 202-796-7	Potential	High
Camphene	BCF	1290
CAS: 79-92-5	Pow Log	4.22
EC: 201-234-8	Potential	Very High
(-)-pin-2(10)-ene	BCF	1100
CAS: 18172-67-3	Pow Log	4.4
EC: 242-060-2	Potential	Very High


	Identification	Absorption/desorption	Volatility
12.4 MOBILITY IN SOIL	7-methyl-3-methyleneocta		
	-1,6-diene Pa·m ³ /mol	Koc 1300	Henry 6.515E+3
	CAS: 123-35-3	Conclusion Low	Dry soil n/a
	EC: 204-622-5	Surface tension n/a	Moist soil Yes
	P-mentha-1,3-diene	Koc n/a	Henry n/a
	CAS: 99-86-5	Conclusion n/a	Dry soil n/a
	EC: 202-795-1	Surface tension 2.79E-2 N/m (25°C)	Moist soil n/a
	Pin-2(3)-eno	Koc n/a	Henry n/a
	CAS: 80-56-8	Conclusion n/a	Dry soil n/a
	EC: 201-291-9	Surface tension 2.587E-2 N/m (25°C)	Moist soil n/a
	p-cimeno Pa·m ³ /mol	Koc 4050	Henry 1.115E+3
	CAS: 99-87-6	Conclusion Low	Dry soil n/a
	EC: 202-796-7	Surface tension 2.835E-2 N/m (25°C)	Moist soil Yes
	Camphene	Koc n/a	Henry n/a
	CAS: 79-92-5	Conclusion n/a	Dry soil n/a
	EC: 201-234-8	Surface tension 1.098E-2 N/m (205.93°C)	Moist soil n/a
	(-)-pin-2(10)-ene	Koc 2080	Henry n/a
	CAS: 18172-67-3	Conclusion Low	Dry soil n/a
12.5 RESULTS OF PBT & VPVB ASSESSMENT	THIS SUBSTANCE DOES NOT MEET THE PBT/VPVB CRITERIA OF REACH, ANNEX XIII.		
12.6 OTHER ADVERSE EFFECTS	DO NOT ALLOW PRODUCT TO ENTER STREAMS, SEWERS OR OTHER WATERWAYS.		
SECTION 13: DISPOSAL INFORMATION			

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<p>13.1 WASTE TREATMENT METHODS</p>	<p>Code: 16 03 05*</p> <p>Description: Organic wastes containing dangerous substances.</p> <p>Waste class (Regulation (EU) No 1357/2014): Dangerous.</p> <p><u>Type of waste (Regulation (EU) No 1357/2014):</u></p> <p>HP14 Ecotoxic, HP4 Irritant — skin irritation and eye damage.</p> <p><u>Waste management (disposal and evaluation):</u></p> <p>Consult the authorized waste service manager on the assessment and disposal operations in accordance with Annex 1 and Annex 2 (Directive 2008/98/EC). As under 15 01 (2014/955/EC) of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. We do not recommended disposal down the drain. See paragraph 6.2.</p> <p><u>Regulations related to waste management:</u></p> <p>In accordance with Annex II of Regulation (EC) n°1907/2006 (REACH) the community or state provisions related to waste management are stated.</p> <p>Community legislation: Directive 2008/98/EC, 2014/955/EU, Regulation (EU) No 1357/2014.</p>
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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. (P-MENTHA-1,3-DIENE)
14.3 TRANSPORT HAZARD CLASS(ES)	ADR/RID/ADN CLASS: 9 IMDG CLASS: 9 ICAO CLASS/DIVISION: 9 TRANSPORT LABELS
14.4 PACKING GROUP	ADR/RID/ADN PACKING GROUP III IMDG PACKING GROUP III ICAO PACKING GROUP III
14.5 ENVIROMENTAL HAZARDS	ENVIRONMENTALLY HAZARDOUS SUBSTANCE/MARINE POLLUTANT

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14.6 SPECIAL PRECAUTIONS FOR USER	SPECIAL REGULATIONS: 274, 335, 375, 601, 909. EMSCODES: F-A, S-F TUNNEL RESTRICTION CODE: E. PHYSIO-CHEMICAL PROPERTIES: SEE SECTION 9. LIMITED QUANTITIES: 5L
14.7 TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL73/78 & THE IBC CODE.	NO ADDITIONAL DATA.
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	<p>AS MENTIONED IN SECTION 2: H315: CAUSES SKIN IRRITATION H319: CAUSES SERIOUS EYE IRRITATION H317: MAY CAUSE AN ALLERGIC SKIN REACTION H411: TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS</p> <p>AS MENTIONED IN SECTION 3: ACUTE TOX. 4: H302 - HARMFUL IF SWALLOWED AQUATIC ACUTE 1: H400 - VERY TOXIC TO AQUATIC LIFE AQUATIC CHRONIC 1: H410 - VERY TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS AQUATIC CHRONIC 2: H411 - TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS ASP. TOX. 1: H304 - MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS EYE IRRIT. 2: H319 - CAUSES SERIOUS EYE IRRITATION FLAM. LIQ. 3: H226 - FLAMMABLE LIQUID AND VAPOUR FLAM. SOL. 2: H228 - FLAMMABLE SOLID SKIN IRRIT. 2: H315 - CAUSES SKIN IRRITATION SKIN SENS. 1: H317 - MAY CAUSE AN ALLERGIC SKIN REACTION SKIN SENS. 1B: H317 - MAY CAUSE AN ALLERGIC SKIN REACTION STOT SE 3: H335 - MAY CAUSE RESPIRATORY IRRITATION</p>

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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.

DOCUMENTATION REVISION	
DATE	CHANGE DESCRIPTION
10TH APRIL 2018	DATA LAUNCH

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