

CERTIFICATE OF ANALYSIS

PRODUCT NAME: SPIKE LAVENDER, ESSENTIAL OIL

BATCH NUMBER: 4377608

PRODUCT INCI: LAVANDULA LATIFOLIA HERB

PRODUCT CODE: OESPIKLAVE

CAS NUMBER: 84837-04-7

EINECS NUMBER: 284-290-6

MANUFACTURING METHOD: STEAM DISTILLED

MANUFACTURING DATE: 07/11/2019

BEST BEFORE END: November 2022

ANALYTICAL DETAILS	Range	RESULTS
Appearance	LIQUID	-
Colour	PALE YELLOW - YELLOW	-
Odour	CHARACTERISTIC, LAVENDER	-
Specific Gravity @ 200C	0.884 – 0.898	0.890
REFRACTIVE INDEX @ 20 C	1.457 - 1.463	1.461
Optical Rotation (□C)	-1.0 то +5.0	+0.28
STORAGE CONDITIONS		

STORE IN A COOL DRY PLACE AWAY FROM HEAT & SUNLIGHT

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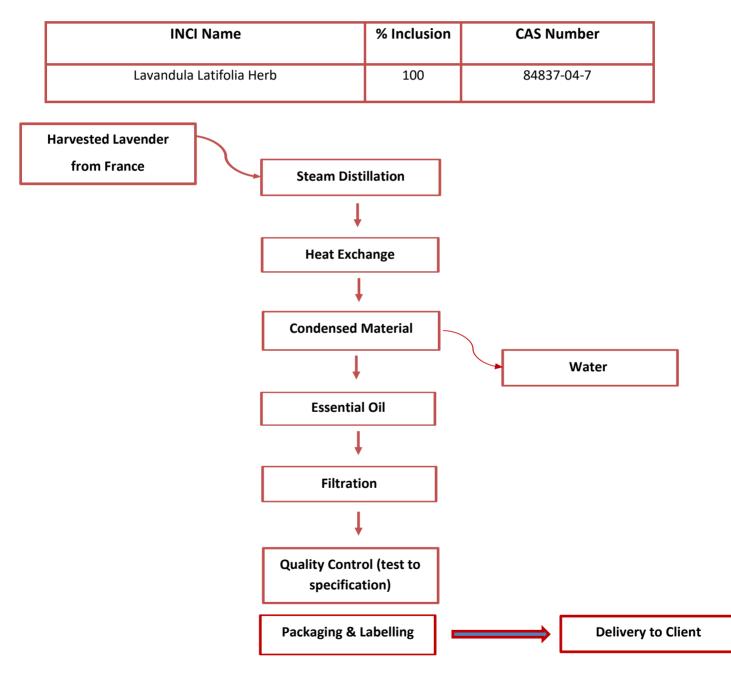
Allergen Declaration:

RODUCT NAME: INCI:	Lavender Spike, Essential Lavandula Latifolia Herb			
	COSMETIC ALLERGENS			
Th	e Following is from the 7th amendment of the cosmetic directive of the European Union Annex iii.			
nex Illa Reference:		CAS NUMBER:	TOTAL ALLERGEN INCLUSION (%):	
67	AMYL CINNAMAL	122-40-7	0.00	
68	BENZYL ALCOHOL	100-51-6	0.00	
69	CINNAMYL ALCOHOL	104-54-1	0.00	
70	CITRAL	5392-40-5	0.00	
71	EUGENOL	97-53-0	0.10	
72	HYDROXY-CITRONELLAL	107-75-5	0.00	
73	ISOEUGENOL	97-54-1	0.00	
74	AMYLCIN-NAMYL ALCOHOL	101-85-9	0.00	
75	BENZYL SALICYLATE	118-58-1	0.00	
76	CINNAMAL	104-55-2	0.00	
70	COUMARIN	91-64-5	0.20	
78	GERANIOL	106-24-1	0.20	
79	HYDROXY- METHYLPENTYLCYCLOHEXENECARBOXALDEHYDE	31906-04-4	0.00	
80	ANISE ALCOHOL	105-13-5	0.00	
81	BENZYL CINNAMATE	103-41-3	0.00	
82	FARNESOL	4602-84-0	0.00	
83	BUTYLPHENYL METHYLPROPIONAL	80-54-6	0.00	
84	LINALOOL	78-70-6	50.00	
85	BENZYL BENZOATE	120-51-4	0.00	
86	CITRONELLOL	106-22-9	0.30	
87	HEXYL CINNAM-ALDEHYDE	106-22-9	0.00	
88	LIMONENE	5989-27-5	3.00	
89		111-12-6	0.00	
	METHYL HEPTIN CARBONATE	111-12-6 127-51-5		
90	ALPHA-ISOMETHYL IONONE		0.00	
91 92	EVERNIA PRUNASTRI EXTRACT	90028-68-5	0.00	
92	EVERNIA FURFURACEA EXTRACT	90028-67-4	0.00	
	FOOD ALLERGENS			
following is from the com	nision directive 2007/68/EC of 27th November 2007 amending Annex Illa to Directive 200/13/EC of the European Park	ment & Council with regards to specific food ing	redients.	
ex Illa Reference:		PRESENT IN PRODUCT:	CONTAMINATION PRESENCE:	FACTORY 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	NO
10	MUSTARD	NO	NO	YES
11	SESAME	NO	NO	YES
12	SULPHUR DIOXIDE & SULPHITES	NO	NO	NO
13	LUPIN	NO	NO	NO
	MOLLUSC	NO	NO	NO



Composition Statement & Manufacturing Flow Chart:

Spike Lavender, Essential Oil



The attached information is considered to be correct at the time the client received this information. Please be aware that detail can change and we encourage clients to update their records with MADAR regularly. The information is not and should not be considered a guarantee or warranty, or a part of our contractual or other legal obligations. The information is not to be disclosed to others, reproduced or transmitted in whole or in part without permission from MADAR.

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IFRA STATEMENT

PRODUCT NAME: SPIKE LAVENDER, ESSENTIAL OIL

PRODUCT INCI: LAVANDULA LATIFOLIA HERB

PRODUCT CODE: OESPIKLAVE

CAS NUMBER: 84837-04-7

EINECS NUMBER: 284-290-6

MANUFACTURING METHOD: STEAM DISTILLED

SHELF LIFE / BEST BEFORE: 24 MONTHS

MADAR CORPORATION CERTIFY THAT THE ABOVE NAMED MATERIAL CONFORMS TO THE IFRA 48 CODE OF PRACTICE AND CONTAINS THE FOLLOWING RESTRICTED COMPONENTS THAT ARE LISTED IN THE 48TH AMENDMENT OF THE IFRA CODE OF PRACTICE:

Restricted Component	Cas No:	% Level in Product	IFRA Standard
Linalool	78-70-6	< 30.65	Specification Std
Limonene	5989-27-5	< 6.28	Specification Std
Benzyl Benzoate	120-51-4	< 0.07	Restriction Stds (QRA cat.)
Coumarin	91-64-5	< 0.21	Restriction Stds (QRA cat.)
Eugenol	97-53-5	< 0.07	Restriction Stds (QRA cat.)
Geraniol	106-24-1	< 0.28	Restriction Stds (QRA cat.)
Benzaldehyde	100-52-7	< 0.07	Restriction Stds (QRA cat.)
Carvone	99-49-0	< 0.07	Restriction Stds (QRA cat.)
1-Octen-3-yl acetate	2442-10-6	< 0.21	Restriction Stds (QRA cat.)
Trans-2-Hexenal	6728-25-3	< 0.07	Restriction Stds (QRA cat.)
7-Methoxycoumarin from naturals	531-59-9	< 0.07	Prohibition Stds (see below)

Additional Comments

7-Methoxycoumarin

The material as such should not be used as a fragrance ingredient for any application.

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On the basis of established maximum levels of this substance in commercially available natural sources (like essential oils, extracts and absolutes), exposure to this substance from the use of these oils and extracts is regarded acceptable as long as the level of 7-methoxycoumarin in the finished product does not exceed 100ppm. (0.01%)

Finished product types	IFRA class
Toys; Lip Products of all types (solid and liquid lipsticks, balms, clear or colored etc)	Class 1
Deodorant and Antiperspirant products of all types (spray, stick, roll-on, under-arm and body etc)	Class 2
Hydroalcoholic products applied to recently shaved skin (EdT range)	Class 3.A
Hydroalcoholic products applied to recently shaved skin (fine fragrance range)	Class 3.B
Eye Products of all types (eye shadow, mascara, eyeliner, eye make-up, etc) including eye cream. Men's Facial Creams and Balms	Class 3.C
Tampons.	Class 3.D
Hydroalcoholic Products applied to unshaved skin (EdT range). Ingredients of Perfume Kits. Scent Strips for Hydroalcoholic Products, "scratch and sniff", other paper products not mentioned elsewhere for which skin exposure is only incidental (e.g. spectacle cleaning tissues).	Class 4.A
Hydroalcoholic Products applied to unshaved skin (Fine Fragrance range).	Class 4.B
Hair Styling Aids and Hair Sprays of all types (pumps, aerosol sprays, etc); Hair Deodorant. Body Creams, Oils, Lotions of all types (including baby creams, lotions, oils). Fragrance Compounds for Cosmetic Kits, Foot Care Products	Class 4.C
Fragrancing Cream	Class 4.D
Women's Facial Creams/Facial Make-up (excluding eye cream); Facial Masks; Hand Cream Wipes or refreshing tissues for Face, Neck, Hands, Body.	Class 5
Mouthwash, Toothpaste.	Class 6
Intimate Wipes; Baby Wipes.	Class 7 A
Insect Repellent (intended to be applied to the skin).	Class 7 B
Make-up Removers of all types (not including face cleansers). Hair Styling Aids Non-Spray of all types (mousse, gels, leave-in conditioners etc). Nail Care. All Powders & Talcs (including baby powders and talcs).	Class 8
Liquid Soap, Bar Soap (toilet soap); Depilatory; Conditioner (rinse-off), Shampoos of all types (including baby shampoos).Face Cleansers of all types (washes, gels, scrubs, etc).Shaving Creams of all types (stick, gels, foams, etc).Body Washes of all types (including baby washes).Shower Gels of all types; Bath Gels, Foams, Mousses, Salts, Oils and other products added to bathwater	Class 9.A
Feminine hygiene pads / liners.	Class 9.B
Other' Aerosols (including air fresheners sprays but not including deodorant/antiperspirants, hair styling aids spray).	Class 9.C
Hand wash/Machine wash Laundry Detergents of all types (liquid, powder, tablet, etc) including Laundry Bleaches. Other Household Cleaning Products (fabric cleaners, soft surface cleaners, carpet cleaners etc) . Dry Cleaning Kits. Fabric Softeners of all types including fabric softener sheets. Hand Dishwashing Detergent. Hard Surface Cleaners of all types (bathroom and kitchen cleansers, furniture polish etc). Shampoos for pets	Class 10.A
Diapers. Toilet seat wipes.	Class 10.B
All non-skin contact, including: Air Fresheners and fragrancing of all types (excluding aerosol products): plug-ins, solid substrate, membrane delivery; Toilet blocks; Joss Sticks, Incense; Insecticides (mosquito coil, paper, electrical, etcexcluding aerosols); Plastic articles (excluding toys); Candles; Fuels; Paints; Floor wax; Liquid refills for air fresheners (cartridge system)	Class 11.A



All incidental skin contact, including:	Class 11.B
Machine Dish wash Detergents and Deodorizers. Machine only Laundry Detergents (e.g. liquitabs).	
Deodorizers/Maskers (e.g. fabric drying machine deodorizers, carpet powder). Pot pourri, fragrancing sachets,	
liquid refills for air fresheners (non-cartridge systems), etc Shoe polishes; Cat Litter; Animal Sprays (excluding	
aerosols); Treated Textiles (e.g. starch sprays, fabric treated with fragrances after wash, deodorizers for textiles or	
fabrics, tights with moisturizers); Odored Distilled Water (that can be added to steam irons).	



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	SPIKE LAVENDER	R, ESSENTIA	AL OIL		
BIOLOGICAL DEFINITION			Oil is an essential oil dis avandula spica), Labiata		FLOWERING HERBS OF THE LAVENDER,
INCI NAME	Lavandula Latifolia Herb				
Synonyms & Trade Names	-				
INTERNAL PRODUCT CODE	OESPIKLAVE				
CAS-No	84837-04-7	EC NO.	284-290-6	EINECS NO.	284-290-6
1.2 Details of the supplier of the safety	(DATA SHEET				
COMPANY ADDRESS	MADAR Corporation Limited 19-20 Sandleheath Industrial Estate, Fordingbridge, Hampshire, SP6 1PA, England.				
EMAIL	sales@madarcorpora	tion.co.uk			
1.3 Details of the supplier of the safety	1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET				
Emergency Contacts	01425 655555				



	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.		
	SKIN IRRITATION, CATEGORY 2 (SKIN IRRIT. 2, H315).		
	Eye irritation, Category 2 (Eye Irrit. 2, H319).		
CLASSIFICATION (EU1272/2008)	SKIN SENSITISATION, CATEGORY 1B (SKIN SENS. 1B, H317).		
	HAZARDOUS TO THE AQUATIC ENVIRONMENT - CHRONIC HAZARD, CATEGORY 2 (AQUATIC CHRONIC 2, H411).		
	THIS MIXTURE DOES NOT PRESENT A PHYSICAL HAZARD. REFER TO THE RECOMMENDATIONS REGARDING THE		
	OTHER PRODUCTS PRESENT ON THE SITE		
2.2			
LABEL ELEMENTS	LABEL IN ACCORDANCE WITH REGULATION (EC) NO 1272/2008.		
GHS LABEL	Ψ_{1}		
GH3 LABEL			
	GHS07 GHS09 V		
Signal Word	WARNING.		
	601-029-00-7 (R)-P-MENTHA-1,8-DIENE		
CONTAINS	EC 207-431-5 EUCALYPTOL.		
	H315 CAUSES SKIN IRRITATION.		
	H317 MAY CAUSE AN ALLERGIC SKIN REACTION.		
HAZARDS STATEMENT	H319 Causes serious eye irritation.		
	H411 TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS.		
	P273 Avoid release to the environment.		
PRECAUTIONARY STATEMENTS	P280 WEAR PROTECTIVE GLOVES/PROTECTIVE CLOTHING/EYE PROTECTION/FACE PROTECTION.		
	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.		
SUPPLEMENTARY PRECAUTIONARY STATEMENTS	P333 + P313 IF SKIN IRRITATION OR RASH OCCURS: GET MEDICAL ADVICE/ATTENTION.		
	P391 COLLECT SPILLAGE.		
	P501 DISPOSE OF CONTENTS/CONTAINER IN ACCORDANCE WITH		
	LOCAL/REGIONAL/NATIONAL/INTERNATIONAL REGULATIONS		
Sec	TION 16 (OTHER INFORMATION): RISK & SAFETY PHRASES IN FULL.		
2.3			
OTHER HAZARDS			
ADVERSE PHYSIO-CHEMICAL PROPERTIES	COMBUSTIBLE BUT SHOULD NOT SELF-IGNITE.		
ADVERSE EFFECTS ON HUMAN HEALTH	SKIN CONTACT MAY CAUSE IRRITATION/SENSITISATION.		
PBT or vPvB according to Annex XIII	NONE		



SECTION 3: COMPOSITION OF INGREDIENTS

	25-50% LINALOOL CAS-NO.: 78-70-6 EC NO.: 201-134-4
	CLASSIFICATION (EC 1272/2008) ACUTE TOX. 5 - H303, SKIN IRRIT. 2 - H315, AQUATIC ACUTE 3 - H402
	40-50% LINALYL ACETATE CAS: 115-95-7, EINECS: 204-116-4
	CLASSIFICATION (EC 1272/2008) SKIN IRRIT. 2, H315; EYE IRRIT. 2, H319
	<18.0 - 20.0% EUCALYPTOL CAS-NO.: 4602-84-0 EC NO.: 225-004-1
	CLASSIFICATION (EC 1272/2008) FLAM. LIQ. 3, H226; SKIN SENS. 1B, H317
	<10.0 - 12.0% Camphor CAS: 76-22-2, EC: 200-945-0
3.2 MIXTURES	CLASSIFICATION (EC 1272/2008) ACUTE TOX. 4, H332, ACUTE TOX. 4, H302, FLAM. SOL. 2, H228, STOT SE 2, H371
	1371
	2.5-10% (R)-P-Mentha-1,8-Diene CAS: 5989-27-5, EC: 227-813-5
	CLASSIFICATION (EC 1272/2008) FLAM. LIQ. 3, H226, SKIN IRRIT. 2, H315, SKIN SENS. 1, H317, AQUATIC ACUTE
	1, H400
	M Acute = 1, Aquatic Chronic 1, H410 M Chronic = 1
	<2.5% EUCALYPTOL CAS-NO.: 4602-84-0 EC NO.: 225-004-1
	CLASSIFICATION (EC 1272/2008) FLAM. LIQ. 3, H226; SKIN SENS. 1B, H317

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	
INHALATION	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	
SKIN CONTACT	IRRITATION PERSISTS.	
EYE CONTACT	FLUSH IMMEDIATELY WITH WATER FOR AT LEAST 15 MINUTES. CONTACT PHYSICIAN IF SYMPTOMS PERSIST.	
4.2	INHALATION MAY CAUSE COUGHING AND DIFFICULTIES IN BREATHING.	
MOST IMPORTANT SYMPTOMS & EFFECTS (ACUTE	INGESTION IRRITATING TO THE RESPIRATORY TRACT AND MAY CAUSE DAMAGE TO THE CENTRAL NERVOUS SYSTEM.	
& DELAYED)	SKIN CONTACT TOXIC IN CONTACT WITH SKIN.	
& DELATED)	EYE CONTACT MAY CAUSE EYE IRRITATION.	
4.3		
INDICATION OF ANY IMMEDIATE MEDICAL	NONE EXPECTED, SEE SECTION 4.1 FOR FURTHER INFORMATION.	
ATTENTION OR SPECIAL TREATMENT REQUIRED		



SECTION 5: FIRE FIGHTING MEASURES

5.1	FOAM, CO2, DRY CHEMICAL POWDER.
EXTINGUISHING MATERIAL	FOAM, COZ, DRY CHEMICAL FOWDER.
5.2	
SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR	BURNING PRODUCES IRRITATING, TOXIC AND OBNOXIOUS FUMES
MIXTURE	
5.3	SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS:
ADVICE 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
ENVIRONMENTAL PRECAUTIONS	AUTHORITY GUIDELINES.
6.3	REMOVE IGNITION SOURCES. PROVIDE ADEQUATE VENTILATION. AVOID EXCESSIVE INHALATION OF VAPOURS.
METHODS & MATERIAL FOR CONTAINMENT AND	CONTAIN SPILLAGE IMMEDIATELY BY USE OF SAND OR INERT POWDER. DISPOSE OF ACCORDING TO LOCAL
CLEANING UP	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	



	Occupational	exposure limits	5:				
	- ACGIH TLV (American Conference of Governmental Industrial Hygienists, Threshold Limit Values, 2010)						
	:						
	CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :	
	76-22-2	2 ppm	3 ppm	-	-	-	
	- France (INRS	5 - ED984 :2008)	:				
	CAS	VME-ppm :	VME-mg/m3	3: VLE-ppm:	VLE-mg/m3 :	Notes :	TMP No :
	76-22-2	2	12	-	-	-	-
	- LIK / W/FL (W	/orkplace expos	ure limits FF	140/2005 20	07) ·		
			ure mints, Er	110/2003, 20			
	CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :	
	76-22-2	2 ppm		-	Demittion .	citteria.	
8.1	76-22-2	2 ppm	3 ppm	-	-	-	
CONTROL PARAMETERS							
	Derived no ef	fect level (DNE	L) or derived	minimum ef	fect level (DMEL	.):	
	LINALOOL (CAS: 78-70-6)						
	Final use: Workers.						
	Exposure metho	d: Dermal contact.					
	Potential health	effects: Short term	systemic effect	s.			
	DNEL : 5 mg/kg b	ody weight/day					
	Exposure metho	d: Dermal contact.					
	Potential health effects: Short term local effects.						
			10110				
	DNEL: 15 MG	G OF SUBSTANCE	/CMZ				
		thod: Dermal (alth effects: L			°⊤c		
		G/KG BODY WEIG					
	EXPOSURE ME	THOD: DERMAL	CONTACT.				
	POTENTIAL HE	alth effects: L	ONG TERM LO	DCAL EFFECTS			
	DNEL : 15 MG	OF SUBSTANCE	/см2				



EXPOSURE METHOD: INHALATION. POTENTIAL HEALTH EFFECTS: SHORT TERM SYSTEMIC EFFECTS.
DNEL : 16.5 Mg of substance/m3
EXPOSURE METHOD: INHALATION.
POTENTIAL HEALTH EFFECTS: LONG TERM SYSTEMIC EFFECTS.
DNEL : 2.8 MG OF SUBSTANCE/M3
EXPOSURE METHOD: INHALATION.
POTENTIAL HEALTH EFFECTS: SHORT TERM SYSTEMIC EFFECTS.
DNEL : 16.5 Mg of substance/m3
Every strength of the strength
EXPOSURE METHOD: INHALATION.
POTENTIAL HEALTH EFFECTS: LONG TERM SYSTEMIC EFFECTS.
DNEL : 2.8 MG OF SUBSTANCE/M3
FINAL USE: CONSUMERS.
EXPOSURE METHOD: INGESTION.
POTENTIAL HEALTH EFFECTS: SHORT TERM SYSTEMIC EFFECTS.
DNEL : 1.2 MG/KG BODY WEIGHT/DAY
EXPOSURE METHOD: INGESTION.
POTENTIAL HEALTH EFFECTS: LONG TERM SYSTEMIC EFFECTS.
DNEL : 0.2 MG/KG BODY WEIGHT/DAY
Every use Method. Incretion
EXPOSURE METHOD: INGESTION.
POTENTIAL HEALTH EFFECTS: SHORT TERM SYSTEMIC EFFECTS. DNEL : 1.2 Mg/kg body weight/day
DNEL: 1.2 MG/KG BODY WEIGHT/DAY
EXPOSURE METHOD: INGESTION.
POTENTIAL HEALTH EFFECTS: LONG TERM SYSTEMIC EFFECTS.
DNEL : 0.2 MG/KG BODY WEIGHT/DAY
EXPOSURE METHOD: DERMAL CONTACT.
POTENTIAL HEALTH EFFECTS: SHORT TERM SYSTEMIC EFFECTS.
DNEL : 2.5 MG/KG BODY WEIGHT/DAY
EXPOSURE METHOD: DERMAL CONTACT.
POTENTIAL HEALTH EFFECTS: SHORT TERM LOCAL EFFECTS.
DNEL : 15 Mg of substance/cm2
EXPOSURE METHOD: DERMAL CONTACT.
POTENTIAL HEALTH EFFECTS: LONG TERM SYSTEMIC EFFECTS.
DNEL : 1.25 MG/KG BODY WEIGHT/DAY
Exposure method: Dermal contact.
POTENTIAL HEALTH EFFECTS: LONG TERM LOCAL EFFECTS.
DNEL : 15 MG OF SUBSTANCE/CM2
EXPOSURE METHOD: DERMAL CONTACT.
POTENTIAL HEALTH EFFECTS: SHORT TERM SYSTEMIC EFFECTS.
DNEL : 2.5 MG/KG BODY WEIGHT/DAY
EXPOSURE METHOD: DERMAL CONTACT.



POTENTIAL HEALTH EFFECTS: SHORT TERM LOCAL EFFECTS.						
Occupational exposure limits : - ACGIH TLV (American Conference of Governmental Industrial Hygienists, Threshold Limit Values, 2010) :						
CAS 76-22-2	TWA : 2 ppm	STEL : 3 ppm	CEILING :	DEFINITION :	CRITERIA :	
- France (INRS	5 - ED984 :2008):				
CAS 76-22-2			3 : VLE-PPM : -	VLE-мg/м3 : -	Notes :	TMP NO :
- UK / WEL (Wo	ORKPLACE EXPOS	SURE LIMITS, EH	140/2005, 2007	7) :		
CAS 76-22-2	TWA : 2 ppm	STEL : 3 ppm	CEILING :	DEFINITION :	CRITERIA :	
DERIVED NO EFFECT LEVEL (DNEL) OR DERIVED MINIMUM EFFECT LEVEL (DMEL): LINALOOL (CAS: 78-70-6) FINAL USE: WORKERS.						
Exposure method: Dermal contact. Potential health effects: Short term systemic effects. DNEL : 5 mg/kg body weight/day						
Exposure method: Dermal contact. Potential health effects: Short term local effects. DNEL : 15 mg of substance/cm2						
Exposure method: Dermal contact. Potential health effects: Long term systemic effects. DNEL : 2.5 mg/kg body weight/day						
Exposure method: Dermal contact. Potential health effects: Long term local effects. DNEL : 15 mg of substance/cm2						
Exposure method: Dermal contact. Potential health effects: Short term systemic effects. DNEL : 5 mg/kg body weight/day						
EXPOSURE METHOD: DERMAL CONTACT. POTENTIAL HEALTH EFFECTS: SHORT TERM LOCAL EFFECTS. DNEL : 15 mg of substance/cm2						
POTENTIAL HEA	HOD: DERMAL CO LTH EFFECTS: LO /KG BODY WEIGH	NG TERM SYST	EMIC EFFECTS.			
POTENTIAL HEA	HOD: DERMAL CO LTH EFFECTS: LO OF SUBSTANCE/O	NG TERM LOCA	AL EFFECTS.			



EXPOSURE METHOD: INHALATION.
POTENTIAL HEALTH EFFECTS: SHORT TERM SYSTEMIC EFFECTS.
DNEL : 16.5 MG OF SUBSTANCE/M3
EXPOSURE METHOD: INHALATION.
POTENTIAL HEALTH EFFECTS: LONG TERM SYSTEMIC EFFECTS.
DNEL : 2.8 MG OF SUBSTANCE/M3
EXPOSURE METHOD: INHALATION.
POTENTIAL HEALTH EFFECTS: SHORT TERM SYSTEMIC EFFECTS.
DNEL : 16.5 MG OF SUBSTANCE/M3
EXPOSURE METHOD: INHALATION.
POTENTIAL HEALTH EFFECTS: LONG TERM SYSTEMIC EFFECTS.
DNEL : 2.8 Mg of substance/M3
DIVEL . Z.O WG OF SUBSTAINCE/WIS
FINAL USE: CONSUMERS.
EXPOSURE METHOD: INGESTION.
POTENTIAL HEALTH EFFECTS: SHORT TERM SYSTEMIC EFFECTS.
DNEL : 1.2 MG/KG BODY WEIGHT/DAY
EXPOSURE METHOD: INGESTION.
POTENTIAL HEALTH EFFECTS: LONG TERM SYSTEMIC EFFECTS.
DNEL : 0.2 MG/KG BODY WEIGHT/DAY
EXPOSURE METHOD: INGESTION.
POTENTIAL HEALTH EFFECTS: SHORT TERM SYSTEMIC EFFECTS.
DNEL : 1.2 MG/KG BODY WEIGHT/DAY
EXPOSURE METHOD: INGESTION.
POTENTIAL HEALTH EFFECTS: LONG TERM SYSTEMIC EFFECTS.
DNEL : 0.2 MG/KG BODY WEIGHT/DAY
EXPOSURE METHOD: DERMAL CONTACT.
POTENTIAL HEALTH EFFECTS: SHORT TERM SYSTEMIC EFFECTS.
DNEL : 2.5 MG/KG BODY WEIGHT/DAY
EXPOSURE METHOD: DERMAL CONTACT.
POTENTIAL HEALTH EFFECTS: SHORT TERM LOCAL EFFECTS.
DNEL : 15 Mg of substance/cm2
Exposure method: Dermal contact.
POTENTIAL HEALTH EFFECTS: LONG TERM SYSTEMIC EFFECTS.
DNEL : 1.25 MG/KG BODY WEIGHT/DAY
EXPOSURE METHOD: DERMAL CONTACT.
POTENTIAL HEALTH EFFECTS: LONG TERM LOCAL EFFECTS.
DNEL : 15 mg of substance/cm2
EXPOSURE METHOD: DERMAL CONTACT.
POTENTIAL HEALTH EFFECTS: SHORT TERM SYSTEMIC EFFECTS.
DNEL : 2.5 MG/KG BODY WEIGHT/DAY
EXPOSURE METHOD: DERMAL CONTACT.
POTENTIAL HEALTH EFFECTS: SHORT TERM LOCAL EFFECTS.



DNEL: 15 MG OF SUBSTANCE/CM2
EXPOSURE METHOD: DERMAL CONTACT.
POTENTIAL HEALTH EFFECTS: LONG TERM SYSTEMIC EFFECTS.
DNEL : 1.25 MG/KG BODY WEIGHT/DAY
DINEL . 1.23 WO/NG BODT WEIGHT/DAT
EXPOSURE METHOD: DERMAL CONTACT.
POTENTIAL HEALTH EFFECTS: LONG TERM LOCAL EFFECTS.
DNEL : 15 MG OF SUBSTANCE/CM2
Exposure method: Inhalation.
POTENTIAL HEALTH EFFECTS: SHORT TERM SYSTEMIC EFFECTS.
DNEL: 4.1 Mg of substance/m3
EXPOSURE METHOD: INHALATION.
POTENTIAL HEALTH EFFECTS: LONG TERM SYSTEMIC EFFECTS.
DNEL : 0.7 MG OF SUBSTANCE/M3
Exposure method: Inhalation.
POTENTIAL HEALTH EFFECTS: SHORT TERM SYSTEMIC EFFECTS.
DNEL : 4.1 Mg of substance/m3
DIVEL . 4.1 MG OF SUBSTAILCE/MS
EXPOSURE METHOD: INHALATION.
POTENTIAL HEALTH EFFECTS: LONG TERM SYSTEMIC EFFECTS.
DNEL : 0.7 MG OF SUBSTANCE/M3
PREDICTED NO EFFECT CONCENTRATION (PNEC):
LINALOOL (CAS: 78-70-6)
ENVIRONMENTAL COMPARTMENT: SOIL.
РNEC : 0.327 мg/кg
Environmental compartment: Soil.
PNEC : 0.327 Mg/kg
TNEC . 0.327 MG/RG
ENVIRONMENTAL COMPARTMENT: FRESH WATER.
PNEC : 0.2 MG/L
ENVIRONMENTAL COMPARTMENT: FRESH WATER.
PNEC: 0.2 MG/L
Environmental compartment: Sea water.
PNEC : 0.02 mg/L
FNEC: 0.02 MG/L
ENVIRONMENTAL COMPARTMENT: SEA WATER.
PNEC : 0.02 MG/L
ENVIRONMENTAL COMPARTMENT: INTERMITTENT WASTE WATER.
PNEC : 2 MG/L
ENVIRONMENTAL COMPARTMENT: INTERMITTENT WASTE WATER.
ENVIRONMENTAL COMPARTMENT: INTERMITTENT WASTE WATER.
ENVIRONMENTAL COMPARTMENT: FRESH WATER SEDIMENT.
РNEС : 2.22 мд/кд



	ENVIRONMENTAL COMPARTMENT: FRESH WATER SEDIMENT. PNEC : 2.22 mg/kg	
	Environmental compartment: Marine sediment. PNEC : 0.222 mg/kg	
	ENVIRONMENTAL COMPARTMENT: MARINE SEDIMENT. PNEC : 0.222 mg/kg	
	ENVIRONMENTAL COMPARTMENT: WASTE WATER TREATMENT PLANT. PNEC : 10 mg/l	
	ENVIRONMENTAL COMPARTMENT: WASTE WATER TREATMENT PLANT. PNEC : 10 mg/l	
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	Avoid Skin Contact. Wear suitable protective clothing. Suitable type of protective clothing : In the event of substantial spatter, wear liquid-tight protective clothing against chemical risks (type 3) in accordance with EN14605 to prevent skin contact. In the event of a risk of splashing, wear protective clothing against chemical risks (type 6) in accordance with EN13034 to prevent skin contact. Work clothing worn by personnel shall be laundered regularly.	
	AFTER CONTACT WITH THE PRODUCT, ALL PARTS OF THE BODY THAT HAVE BEEN SOILED MUST BE WASHED.	
Process Conditions	AFTER CONTACT WITH THE PRODUCT, ALL PARTS OF THE BODY THAT HAVE BEEN SOILED MUST BE WASHED. ENSURE AREA IS WELL VENTILATED. AVOID VAPOUR INHALATION. SAFETY SHOWER & EYE BATH.	
PROCESS CONDITIONS ENVIROMENTAL EXPOSURE CONTROLS	AFTER CONTACT WITH THE PRODUCT, ALL PARTS OF THE BODY THAT HAVE BEEN SOLED MUST BE WASHED. ENSURE AREA IS WELL VENTILATED. AVOID VAPOUR INHALATION. SAFETY SHOWER & EYE BATH. AVOID DISCHARGING INTO DRAINAGE WATER.	



SECTION 9: PHYSICAL & CHEMICAL

PROPERTIES

9.1	
PHYSICAL & CHEMICAL PROPERTIES	
Appearance	Liquid
Colour	Pale yellow
Odour	Characteristic
RELATIVE DENSITY	0.884 - 898 @ 20°C
FLASH POINT (°C)	71°C.
REFRACTIVE INDEX @ 20 °C	1.457 – 1.462 @ 20°C
Solubility in water @ 20 °C	INSOLUBLE IN WATER
9.2	NO DATA.
OTHER INFORMATION	NO DATA.
SECTION 10: STABILITY & REACTIVITY	
10.1 REACTIVITY	NOT APPLICABLE.
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	Avoid concentrated acids, alkalis & oxidising agents.
10.6	This product does not decompose under normal conditions. Under fire conditions the
HAZARDOUS DECOMPOSITION PRODUCTS	PRODUCT WILL PRODUCE A MIXTURE OF IRRITATING FUMES & SMOKE & CARBON MONOXIDE.

SECTION 11: TOXICOLOGICAL INFORMATION	
11.1	
TOXICOLOGICAL EFFECTS	
	CAMPHOR L(XN68)=10% X (CAS: 76-22-2)
	Oral route : LD50 = 1500 mg/kg
	INHALATION ROUTE : LC50 = 1.5 MG/L
Αсυτε Τοχιςιτγ	EUCALYPTOL (CAS: 470-82-6) Oral Route : LD50 = 2480 mg/kg LINALOOL (CAS: 78-70-6) Oral Route : LD50 = 2790 mg/kg.
SKIN IRRITATION	Considered a skin irritant (Route: DRM). There may be irritation and redness at site of contact.
EYE DAMAGE OR IRRITATION	THERE MAY BE IRRITATION AND REDNESS. EYES WILL WATER PROFUSELY.



	ON INGESTION: THERE MAY BE SORENESS AND REDNESS OF THE MOUTH AND THROAT.
R ESPIRATORY OR SKIN SENSITIVITY	NAUSEA AND STOMACH PAIN MAY OCCUR. THERE MAY BE VOMITING.
	ON INHALATION: THERE MAY BE IRRITATION OF THE THROAT WITH A FEELING OF
	TIGHTNESS IN THE CHEST.
GERM CELL MUTAGENICITY	
CARCINOGENICITY	
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	NO DATA.
SECTION 12: ECOLOGICAL INFORMATION	
	AQUATIC LIFE: VERY TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS.
12.1 Toyicity	FISH/AQUATIC VERTEBRATES: NO ADDITIONAL DATA AVAILABLE.
Τοχιςιτγ	PNECS: NO ADDITIONAL DATA AVAILABLE.
12.2	THIS MATERIAL IS CONSIDERED READILY BIODEGRADABLE, THEREFORE DOES NOT FULFIL
PERSISTENCE & DEGRADABILITY	THE CRITERIA FOR PERSISTENCE.
12.3 BIO- ACCUMULATIVE POTENTIAL	BIOACCUMULATION POTENTIAL.
12.4	THIS MATERIAL IS CONSIDERED READILY BIODEGRADABLE, THEREFORE SIMULATION TESTS
MOBILITY IN SOIL	IN SURFACE WATER, SEDIMENT AND SOIL ARE NOT REQUIRED IN ACCORDANCE WITH
	COLUMN 2 OF REACH ANNEX IX.
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	
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.

SECTION 14: TRANSPORT INFORMATION		
14.1		
TRANSPORT INFORMATION		
	ROAD: 3082	
UN NUMBER	SEA: 3082	
	AIR: 3082	



14.2 UN Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE
	ADR/RID/ADN CLASS: 9: MISCELLANEOUS DANGEROUS SUBSTANCES AND
	ARTICLES.
	IMDG Class: 9: Miscellaneous dangerous substances and
	ARTICLES.
	ICAO CLASS/DIVISION: 9: MISCELLANEOUS DANGEROUS SUBSTANCES AND
	ARTICLES.
14.3	
TRANSPORT HAZARD CLASS(ES)	Transport Labels
	TRAINSFORT LABELS
	MISCELLANEOUS DANGEROUS GOODS
	9
	ADR/RID/ADN PACKING GROUP
14.4	IMDG Packing group III
PACKING GROUP	
	Environmentally Hazardous Substance/Marine Pollutant.
14.5 Enviromental Hazards	
	ADR/RID CLASS CODE PACK GR. LABEL IDENT. LQ PROVIS. EQ CAT. TUNNEL 9 M6 III 9 90 5 L 274 335 601 E1 3 E IMDG
	CLASS 2°LABEL PACK GR. LQ EMS PROVIS. EQ 9 - III 5 L F-A,S-F 274 335 E1
14.6 Special precautions for user	IATA Class 2°Label Pack gr. Passager Passager Cargo Cargo Note EQ
	9 - III 964 450 L 964 450 L A97 /
	A158 E1
	9 - III Y964 30 KG G A97 /
	A158 E1
	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 T ADR AND IMDG.



SECTION 15: REGULATORY INFORMATION	
15.1 PRODUCT SPECIFIC SAFETY, HEALTH & ENVIRONMENTAL REGULATIONS & LEGISLATION	
EU DIRECTIVES	REGULATION (EC) NO 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL OF 18 TH DECEMBER 2006. CONCERNING THE REGISTRATION, EVALUATION, AUTHORIZATION & RESTRICTION OF CHEMICALS (REACH), ESTABLISHING A EUROPEAN CHEMICALS AGENCY, AMENDING DIRECTIVE 1999/45/EC AND REPEALING COUNCIL REGULATION (EEC) NO793/93 & COMMISSION REGULATION (EC) NO1488/94 AS WELL AS COUNCIL DIRECTIVE 76/769/EEC & COMMISSION DIRECTIVE 91/155/ECC, 93/67/ECC, 93/105/EEC & 2000/21/EC (INCLUDING AMENDMENTS).
STATUTORY INSTRUMENTS	The Chemicals (Hazard Information & Packaging for Supply Regulations 2009 (S.I.2009 No 716).
APPROVED CODE OF PRACTICE	CLASSIFICATION & LABELLING OF SUBSTANCES & PREPARATIONS DANGEROUS FOR SUPPLY. SAFETY DATA SHEETS FOR SUBSTANCES & PREPARATIONS.
GUIDANCE NOTES	WORKPLACE EXPOSURE LIMITS EH40. CHIP FOR EVERYONE HSG 108.
15.2 Chemical Safety Assessment	-

SECTION 16: OTHER INFORMATION		
Hazard and/ or Precautionary Statements in full	H226 FLAMMABLE LIQUID AND VAPOUR.	
	H228 FLAMMABLE SOLID.	
	H302 Harmful if swallowed.	
	H315 CAUSES SKIN IRRITATION.	
	H317 MAY CAUSE AN ALLERGIC SKIN REACTION.	
	H319 CAUSES SERIOUS EYE IRRITATION.	
	H332 HARMFUL IF INHALED.	
	H371 MAY CAUSE DAMAGE TO ORGANS.	
	H400 VERY TOXIC TO AQUATIC LIFE.	
	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.	
IMDG	INTERNATIONAL MARITIME CODE FOR DANGEROUS GOODS. Accord European sur le transport des merchandises Dangereuses par Route	
IMDG ADR		



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 [™] April 2018	Data Launch

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SPECIFICATION SHEET

PRODUCT NAME: SPIKE LAVENDER, ESSENTIAL OIL

PRODUCT INCI: LAVANDULA LATIFOLIA HERB PRODUCT CODE: OESPIKLAVE Cas Number: 84837-04-7

EINECS NUMBER: 284-290-6

MANUFACTURING METHOD: STEAM DISTILLED

SHELF LIFE / BEST BEFORE: 24 MONTHS

ANALYTICAL DETAILS	RANGE
Appearance	LIQUID
Colour	Pale Yellow - Yellow
Odour	Characteristic, Lavender
SPECIFIC GRAVITY @ 20°C	0.884 – 0.898
REFRACTIVE INDEX @ 20°C	1.457 – 1.463
OPTICAL ROTATION (°C)	-1.0 to +5.0

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

DOCUMENTATION REVIEW DATE:

24[™] May 2018

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