



## CERTIFICATE OF ANALYSIS

**PRODUCT NAME: SPIKE LAVENDER, ESSENTIAL OIL**

**BATCH NUMBER: 4351008**

PRODUCT INCI: LAVANDULA LATIFOLIA HERB

PRODUCT CODE: OESPIKLAVE

CAS NUMBER: 84837-04-7

EINECS NUMBER: 284-290-6

MANUFACTURING METHOD: STEAM DISTILLED

MANUFACTURING DATE: 28/09/2018

BEST BEFORE END: FEBRUARY 2022

ANALYTICAL DETAILS	RANGE	RESULTS
APPEARANCE	LIQUID	-
COLOUR	PALE YELLOW - YELLOW	-
ODOUR	CHARACTERISTIC, LAVENDER	-
SPECIFIC GRAVITY @ 20°C	0.884 – 0.898	0.891
REFRACTIVE INDEX @ 20°C	1.457 – 1.463	1.460
OPTICAL ROTATION (°C)	-1.0 TO +5.0	-0.10

### STORAGE CONDITIONS

STORE IN A COOL DRY PLACE AWAY FROM HEAT & SUNLIGHT



## Allergen Declaration:

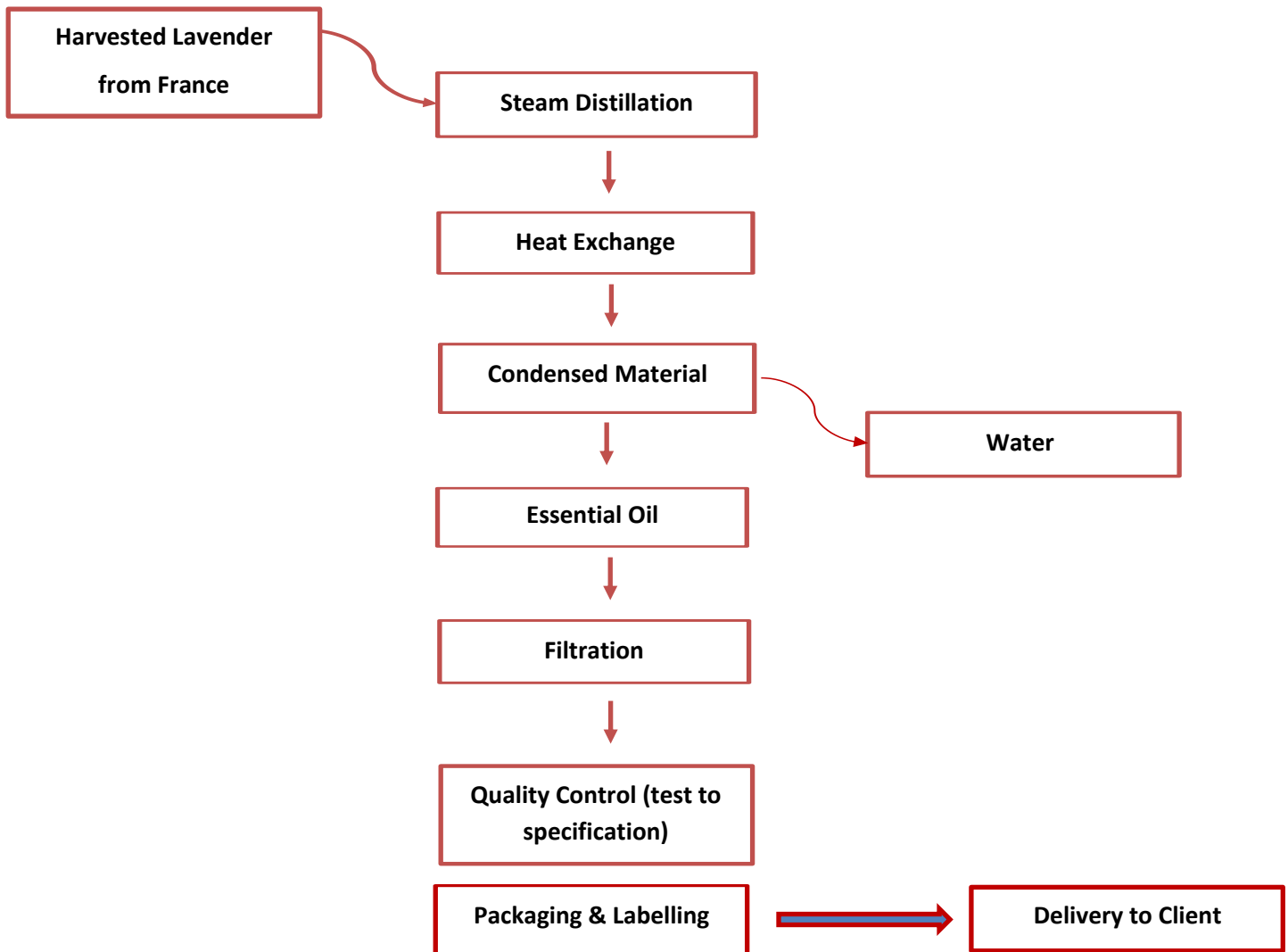
<b>PRODUCT NAME:</b> Lavender Spike, Essential				
<b>INCI:</b> Lavandula Latifolia Herb				
<b>COSMETIC ALLERGENS</b>				
<small>The Following is from the 7th amendment of the cosmetic directive of the European Union Annex III.</small>				
<b>Annex IIIa Reference:</b>		<b>CAS NUMBER:</b>	<b>TOTAL ALLERGEN INCLUSION (%):</b>	
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	AMYL CIN-NAMYL ALCOHOL	101-85-9	0.00	
75	BENZYL SALICYLATE	118-58-1	0.00	
76	CINNAMAL	104-55-2	0.00	
77	COUMARIN	91-64-5	0.20	
78	GERANIOL	106-24-1	0.20	
79	HYDROXY- METHYLPENTYL CYCLOHEXENE CARBOXYALDEHYDE	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	101-86-0	0.00	
88	LIMONENE	5989-27-5	3.00	
89	METHYL HEPTIN CARBONATE	111-12-6	0.00	
90	ALPHA-ISOMETHYL IONONE	127-51-5	0.00	
91	EVERNIA PRUNASTRI EXTRACT	90028-68-5	0.00	
92	EVERNIA FURFURACEA EXTRACT	90028-67-4	0.00	
<b>FOOD ALLERGENS</b>				
<small>The following is from the commission directive 2007/68/EC of 27th November 2007 amending Annex IIIa to Directive 200/13/EC of the European Parliament &amp; Council with regards to specific food ingredients.</small>				
<b>Annex IIIa Reference:</b>		<b>PRESENT IN PRODUCT:</b>	<b>CONTAMINATION PRESENCE:</b>	<b>FACTORY PRESENCE:</b>
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
14	MOLLUSC	NO	NO	NO



### Composition Statement & Manufacturing Flow Chart:

#### Spike Lavender, Essential Oil

INCI Name	% Inclusion	CAS Number
Lavandula Latifolia Herb	100	84837-04-7



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.



## 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 48<sup>TH</sup> 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.

*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. It is the responsibility of the client to ensure the safety of the final product containing this ingredient. Please carry out additional testing if necessary.*



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, etc...excluding aerosols); Plastic articles (excluding toys); Candles; Fuels; Paints; Floor wax; Liquid refills for air fresheners (cartridge system)	Class 11.A



<p>All incidental skin contact, including: Machine Dish wash Detergents and Deodorizers. Machine only Laundry Detergents (e.g. liquid tabs). 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).</p>	<p>Class 11.B</p>
---	-------------------





## Material Safety Data Sheet

EU Regulation: 1907/2006

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

<b>1.1</b> PRODUCT IDENTIFICATION					
<b>PRODUCT NAME</b>	SPIKE LAVENDER, ESSENTIAL OIL				
<b>BIOLOGICAL DEFINITION</b>	LAVANDULA LATIFOLIA HERB OIL IS AN ESSENTIAL OIL DISTILLED FROM THE FLOWERING HERBS OF THE LAVENDER, LAVANDULA LATIFOLIA (SYN: LAVANDULA SPICA), LABIATAE.				
<b>INCI NAME</b>	LAVANDULA LATIFOLIA HERB				
<b>SYNONYMS &amp; TRADE NAMES</b>	-				
<b>INTERNAL PRODUCT CODE</b>	OESPIKLAVE				
<b>CAS-NO</b>	84837-04-7	<b>EC No.</b>	284-290-6	<b>EINECS No.</b>	284-290-6
<b>1.2</b> DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET					
<b>COMPANY ADDRESS</b>	MADAR Corporation Limited 19-20 Sandleheath Industrial Estate, Fordingbridge, Hampshire, SP6 1PA, England.				
<b>EMAIL</b>	sales@madarcorporation.co.uk				
<b>1.3</b> DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET					
<b>EMERGENCY CONTACTS</b>	01425 655555				

SECTION 2: HAZARDS IDENTIFICATION	
<b>2.1</b>	
<b>CLASSIFICATION OF THE SUBSTANCE OR MIXTURE</b>	THE FULL TEXT FOR ALL HAZARD STATEMENTS IS DISPLAYED IN SECTION 16.
<b>CLASSIFICATION (67/548/EEC)</b>	NO ADDITIONAL DATA AVAILABLE.
<b>CLASSIFICATION (EU1272/2008)</b>	<p>SKIN IRRITATION, CATEGORY 2 (SKIN IRRIT. 2, H315).</p> <p>EYE IRRITATION, CATEGORY 2 (EYE IRRIT. 2, H319).</p> <p>SKIN SENSITISATION, CATEGORY 1B (SKIN SENS. 1B, H317).</p> <p>HAZARDOUS TO THE AQUATIC ENVIRONMENT - CHRONIC HAZARD, CATEGORY 2 (AQUATIC CHRONIC 2, H411).</p> <p>THIS MIXTURE DOES NOT PRESENT A PHYSICAL HAZARD. REFER TO THE RECOMMENDATIONS REGARDING THE OTHER PRODUCTS PRESENT ON THE SITE..</p>
<b>2.2</b>	
<b>LABEL ELEMENTS</b>	LABEL IN ACCORDANCE WITH REGULATION (EC) No 1272/2008.
<b>GHS LABEL</b>	  <p>GHS07                  GHS09</p>
<b>SIGNAL WORD</b>	WARNING.
<b>CONTAINS</b>	601-029-00-7 (R)-P-MENTHA-1,8-DIENE EC 207-431-5 EUCALYPTOL.
<b>HAZARDS STATEMENT</b>	<p>H315 CAUSES SKIN IRRITATION.</p> <p>H317 MAY CAUSE AN ALLERGIC SKIN REACTION.</p> <p>H319 CAUSES SERIOUS EYE IRRITATION.</p> <p>H411 TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS.</p>
<b>PRECAUTIONARY STATEMENTS</b>	<p>P273 AVOID RELEASE TO THE ENVIRONMENT.</p> <p>P280 WEAR PROTECTIVE GLOVES/PROTECTIVE CLOTHING/EYE PROTECTION/FACE PROTECTION.</p>
<b>SUPPLEMENTARY PRECAUTIONARY STATEMENTS</b>	<p>P302 + P352 IF ON SKIN: WASH WITH PLENTY OF SOAP AND WATER.</p> <p>P305 + P351 + P338 IF IN EYES: RINSE CAUTIOUSLY WITH WATER FOR SEVERAL MINUTES. REMOVE CONTACT LENSES, IF PRESENT AND EASY TO DO. CONTINUE RINSING.</p> <p>P333 + P313 IF SKIN IRRITATION OR RASH OCCURS: GET MEDICAL ADVICE/ATTENTION.</p> <p>P391 COLLECT SPILLAGE.</p> <p>P501 DISPOSE OF CONTENTS/CONTAINER IN ACCORDANCE WITH LOCAL/REGIONAL/NATIONAL/INTERNATIONAL REGULATIONS</p>
SECTION 16 (OTHER INFORMATION): RISK & SAFETY PHRASES IN FULL.	
<b>2.3</b>	
<b>OTHER HAZARDS</b>	
<b>ADVERSE PHYSIO-CHEMICAL PROPERTIES</b>	COMBUSTIBLE BUT SHOULD NOT SELF-IGNITE.
<b>ADVERSE EFFECTS ON HUMAN HEALTH</b>	SKIN CONTACT MAY CAUSE IRRITATION/SENSITISATION.
<b>PBT OR VPVB ACCORDING TO ANNEX XIII</b>	NONE



### SECTION 3: COMPOSITION OF INGREDIENTS

<b>3.2 MIXTURES</b>	<p>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</p> <p>40-50% LINALYL ACETATE CAS: 115-95-7, EINECS: 204-116-4 CLASSIFICATION (EC 1272/2008) SKIN IRRIT. 2, H315; EYE IRRIT. 2, H319</p> <p>&lt;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</p> <p>&lt;10.0 - 12.0% CAMPHOR CAS: 76-22-2, EC: 200-945-0 CLASSIFICATION (EC 1272/2008) ACUTE TOX. 4, H332, ACUTE TOX. 4, H302, FLAM. SOL. 2, H228, STOT SE 2, H371</p> <p>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</p> <p>&lt;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</p>
---------------------	--

### SECTION 4: FIRST AID MEASURES

<b>4.1</b>									
<b>DESCRIPTION OF FIRST AID MEASURES</b>									
<b>GENERAL INFORMATION</b>	ALWAYS REMOVE CONTAMINATED CLOTHING IMMEDIATELY.								
<b>INHALATION</b>	GET MEDICAL ATTENTION IMMEDIATELY. REMOVE FROM EXPOSURE SITE TO FRESH AIR, KEEP AT REST, AND OBTAIN MEDICAL ATTENTION.								
<b>INGESTION</b>	GET MEDICAL ATTENTION IMMEDIATELY. RINSE MOUTH WITH WATER AND OBTAIN MEDICAL ATTENTION.								
<b>SKIN CONTACT</b>	REMOVE CONTAMINATED CLOTHES. WASH THOROUGHLY WITH SOAP AND WATER. CONTACT PHYSICIAN IF IRRITATION PERSISTS.								
<b>EYE CONTACT</b>	FLUSH IMMEDIATELY WITH WATER FOR AT LEAST 15 MINUTES. CONTACT PHYSICIAN IF SYMPTOMS PERSIST.								
<b>4.2</b>									
<b>MOST IMPORTANT SYMPTOMS &amp; EFFECTS (ACUTE &amp; DELAYED)</b>	<table border="0"> <tr> <td>INHALATION</td> <td>MAY CAUSE COUGHING AND DIFFICULTIES IN BREATHING.</td> </tr> <tr> <td>INGESTION</td> <td>IRRITATING TO THE RESPIRATORY TRACT AND MAY CAUSE DAMAGE TO THE CENTRAL NERVOUS SYSTEM.</td> </tr> <tr> <td>SKIN CONTACT</td> <td>TOXIC IN CONTACT WITH SKIN.</td> </tr> <tr> <td>EYE CONTACT</td> <td>MAY CAUSE EYE IRRITATION.</td> </tr> </table>	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.
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.								
<b>4.3</b>									
<b>INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION OR SPECIAL TREATMENT REQUIRED</b>	NONE EXPECTED, SEE SECTION 4.1 FOR FURTHER INFORMATION.								

<b>SECTION 5: FIRE FIGHTING MEASURES</b>	
<b>5.1 EXTINGUISHING MATERIAL</b>	FOAM, CO2, DRY CHEMICAL POWDER.
<b>5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE</b>	BURNING PRODUCES IRRITATING, TOXIC AND OBNOXIOUS FUMES
<b>5.3 ADVICE FOR FIRE-FIGHTERS</b>	SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS: WEAR POSITIVE-PRESSURE SELF-CONTAINED BREATHING APPARATUS (SCBA) AND APPROPRIATE PROTECTIVE CLOTHING.
<b>SECTION 6: ACCIDENTAL RELEASE MEASURES</b>	
<b>6.1 PERSONAL PRECAUTIONS</b>	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.
<b>6.2 ENVIRONMENTAL PRECAUTIONS</b>	DO NOT DISCHARGE INTO DRAINS, WATER COURSES OR ONTO THE GROUND. DISPOSE OF IN LINE WITH LOCAL AUTHORITY GUIDELINES.
<b>6.3 METHODS &amp; MATERIAL FOR CONTAINMENT AND CLEANING UP</b>	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.
<b>6.4 REFERENCES TO OTHER SECTIONS</b>	REFER & CONSIDER SECTION 8. REFER & CONSIDER SECTION 13.
<b>SECTION 7: HANDLING &amp; STORAGE</b>	
<b>7.1 PRECAUTIONS FOR SAFE-HANDLING</b>	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.
<b>7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES</b>	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.
<b>7.3 SPECIFIC END USE(S)</b>	NO DATA.
<b>SECTION 8: EXPOSURE CONTROLS &amp; PERSONAL PROTECTION</b>	

**8.1  
CONTROL PARAMETERS**

**Occupational exposure limits :**

- 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 - ED984 :2008) :

CAS	VME-ppm :	VME-mg/m3 :	VLE-ppm :	VLE-mg/m3 :	Notes :	TMP No :
76-22-2	2	12	-	-	-	-

- UK / WEL (Workplace exposure limits, EH40/2005, 2007) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
76-22-2	2 ppm	3 ppm	-	-	-

**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/CM<sup>2</sup>

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/CM<sup>2</sup>

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

**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.

**OCCUPATIONAL EXPOSURE LIMITS :**

- 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 - ED984 :2008) :

CAS	VME-PPM :	VME-MG/M3 :	VLE-PPM :	VLE-MG/M3 :	NOTES :	TMP No :
76-22-2	2	12	-	-	-	-

- UK / WEL (WORKPLACE EXPOSURE LIMITS, EH40/2005, 2007) :

CAS	TWA :	STEL :	CEILING :	DEFINITION :	CRITERIA :
76-22-2	2 PPM	3 PPM	-	-	-

**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

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: 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

**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

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

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.  
 PNEC : 0.327 MG/KG

ENVIRONMENTAL COMPARTMENT: SOIL.  
 PNEC : 0.327 MG/KG

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

ENVIRONMENTAL COMPARTMENT: SEA WATER.  
 PNEC : 0.02 MG/L

ENVIRONMENTAL COMPARTMENT: INTERMITTENT WASTE WATER.  
 PNEC : 2 MG/L

ENVIRONMENTAL COMPARTMENT: INTERMITTENT WASTE WATER.  
 PNEC : 2 MG/L

ENVIRONMENTAL COMPARTMENT: FRESH WATER SEDIMENT.  
 PNEC : 2.22 MG/KG

	<p>ENVIRONMENTAL COMPARTMENT: FRESH WATER SEDIMENT. PNEC : 2.22 MG/KG</p> <p>ENVIRONMENTAL COMPARTMENT: MARINE SEDIMENT. PNEC : 0.222 MG/KG</p> <p>ENVIRONMENTAL COMPARTMENT: MARINE SEDIMENT. PNEC : 0.222 MG/KG</p> <p>ENVIRONMENTAL COMPARTMENT: WASTE WATER TREATMENT PLANT. PNEC : 10 MG/L</p> <p>ENVIRONMENTAL COMPARTMENT: WASTE WATER TREATMENT PLANT. PNEC : 10 MG/L</p>
<p>8.2 EXPOSURE CONTROLS</p>	
	
<b>EYE PROTECTION</b>	WEAR PROTECTIVE GLOVES/EYE PROTECTION/FACE PROTECTION.
<b>HAND PROTECTION</b>	WEAR PROTECTIVE GLOVES/EYE PROTECTION/FACE PROTECTION.
<b>RESPIRATORY EQUIPMENT</b>	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.
<b>HYGIENE MEASURES</b>	GOOD PERSONAL HYGIENE PRACTICES ARE ALWAYS ADVISABLE, ESPECIALLY WHEN WORKING WITH CHEMICALS / OILS.
<b>ENGINEERING MEASURES</b>	NONE.
<b>SKIN PROTECTION</b>	WEAR PROTECTIVE CLOTHING TO REDUCE THE RISK OF SKIN AND EYE CONTACT.
<b>PERSONAL PROTECTION</b>	AVOID INHALATION OF THE PRODUCT. AVOID CONTACT WITH SKIN AND EYES.
<b>OTHER PROTECTION</b>	<p>AVOID SKIN CONTACT.</p> <p>WEAR SUITABLE PROTECTIVE CLOTHING.</p> <p>SUITABLE TYPE OF PROTECTIVE CLOTHING :</p> <p>IN THE EVENT OF SUBSTANTIAL SPATTER, WEAR LIQUID-TIGHT PROTECTIVE CLOTHING AGAINST CHEMICAL RISKS (TYPE 3) IN ACCORDANCE WITH EN14605 TO PREVENT SKIN CONTACT.</p> <p>IN THE EVENT OF A RISK OF SPLASHING, WEAR PROTECTIVE CLOTHING AGAINST CHEMICAL RISKS (TYPE 6) IN ACCORDANCE WITH EN13034 TO PREVENT SKIN CONTACT.</p> <p>WORK CLOTHING WORN BY PERSONNEL SHALL BE LAUNDERED REGULARLY.</p> <p>AFTER CONTACT WITH THE PRODUCT, ALL PARTS OF THE BODY THAT HAVE BEEN SOILED MUST BE WASHED.</p>
<b>PROCESS CONDITIONS</b>	ENSURE AREA IS WELL VENTILATED. AVOID VAPOUR INHALATION. SAFETY SHOWER & EYE BATH.
<b>ENVIRONMENTAL EXPOSURE CONTROLS</b>	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 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 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	CAMPHOR L(XN68)=10% X (CAS: 76-22-2) ORAL ROUTE : LD50 = 1500 MG/KG INHALATION ROUTE : LC50 = 1.5 MG/L  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.



<b>RESPIRATORY OR SKIN SENSITIVITY</b>	ON INGESTION: THERE MAY BE SORENESS AND REDNESS OF THE MOUTH AND THROAT. 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.
<b>GERM CELL MUTAGENICITY</b>	NOT APPLICABLE.
<b>CARCINOGENICITY</b>	NOT APPLICABLE.
<b>REPRODUCTIVE TOXICITY</b>	NOT APPLICABLE.
<b>STOT – SINGLE EXPOSURE</b>	NOT APPLICABLE.
<b>STOT – REPEATED EXPOSURE</b>	NOT APPLICABLE.
<b>ASPIRATION HAZARD</b>	MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS.
<b>OTHER INFORMATION</b>	NO DATA.

## SECTION 12: ECOLOGICAL INFORMATION



<b>12.1 TOXICITY</b>	AQUATIC LIFE: VERY TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS. FISH/AQUATIC VERTEBRATES: NO ADDITIONAL DATA AVAILABLE. PNECS: NO ADDITIONAL DATA AVAILABLE.
<b>12.2 PERSISTENCE &amp; DEGRADABILITY</b>	THIS MATERIAL IS CONSIDERED READILY BIODEGRADABLE, THEREFORE DOES NOT FULFIL THE CRITERIA FOR PERSISTENCE.
<b>12.3 BIO- ACCUMULATIVE POTENTIAL</b>	BIOACCUMULATION POTENTIAL.
<b>12.4 MOBILITY IN SOIL</b>	THIS MATERIAL IS CONSIDERED READILY BIODEGRADABLE, THEREFORE SIMULATION TESTS IN SURFACE WATER, SEDIMENT AND SOIL ARE NOT REQUIRED IN ACCORDANCE WITH COLUMN 2 OF REACH ANNEX IX.
<b>12.5 RESULTS OF PBT &amp; VPVB ASSESSMENT</b>	THIS SUBSTANCE DOES NOT MEET THE PBT/VPVB CRITERIA OF REACH, ANNEX XIII.
<b>12.6 OTHER ADVERSE EFFECTS</b>	DO NOT ALLOW PRODUCT TO ENTER STREAMS, SEWERS OR OTHER WATERWAYS.

## SECTION 13: DISPOSAL INFORMATION

<b>13.1 WASTE TREATMENT METHODS</b>	ALWAYS RECOVER SPILLED PRODUCT. DISCARD WASTE MATERIAL WITH AUTHORIZED WASTE MANAGEMENT SERVICES. ACT IN ACCORDANCE WITH LOCAL & NATIONAL WASTE REGULATIONS.
---	--

## SECTION 14: TRANSPORT INFORMATION

<b>14.1 TRANSPORT INFORMATION</b>	
<b>UN NUMBER</b>	<b>ROAD: 3082</b> <b>SEA: 3082</b> <b>AIR: 3082</b>

<p>14.2 UN SHIPPING NAME</p>	<p>ENVIRONMENTALLY HAZARDOUS SUBSTANCE</p>																																																														
<p>14.3 TRANSPORT HAZARD CLASS(ES)</p>	<p>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.</p> <p>TRANSPORT LABELS</p> 																																																														
<p>14.4 PACKING GROUP</p>	<p>ADR/RID/ADN PACKING GROUP III            IMDG PACKING GROUP III            ICAO PACKING GROUP III</p>																																																														
<p>14.5 ENVIROMENTAL HAZARDS</p>	<p>ENVIRONMENTALLY HAZARDOUS SUBSTANCE/MARINE POLLUTANT.</p> 																																																														
<p>14.6 SPECIAL PRECAUTIONS FOR USER</p>	<p>ADR/RID</p> <table border="1"> <thead> <tr> <th>CLASS</th> <th>CODE</th> <th>PACK GR.</th> <th>LABEL</th> <th>IDENT.</th> <th>LQ</th> <th>PROVIS.</th> <th>EQ</th> <th>CAT.</th> </tr> </thead> <tbody> <tr> <td>9</td> <td>M6</td> <td>III</td> <td>9</td> <td>90</td> <td>5 L</td> <td>274 335 601</td> <td>E1 3</td> <td>E</td> </tr> </tbody> </table> <p>TUNNEL</p> <p>IMDG</p> <table border="1"> <thead> <tr> <th>CLASS</th> <th>2°LABEL</th> <th>PACK GR.</th> <th>LQ</th> <th>EMS</th> <th>PROVIS.</th> <th>EQ</th> </tr> </thead> <tbody> <tr> <td>9</td> <td>-</td> <td>III</td> <td>5 L</td> <td>F-A,S-F</td> <td>274 335</td> <td>E1</td> </tr> </tbody> </table> <p>IATA</p> <table border="1"> <thead> <tr> <th>CLASS</th> <th>2°LABEL</th> <th>PACK GR.</th> <th>PASSAGER</th> <th>PASSAGER CARGO</th> <th>CARGO</th> </tr> </thead> <tbody> <tr> <td>9</td> <td>-</td> <td>III</td> <td>964</td> <td>450 L 964</td> <td>450 L A97 /</td> </tr> <tr> <td>A158</td> <td>E1</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>9</td> <td>-</td> <td>III</td> <td>Y964</td> <td>30 KG G -</td> <td>- A97 /</td> </tr> <tr> <td>A158</td> <td>E1</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>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.</p>	CLASS	CODE	PACK GR.	LABEL	IDENT.	LQ	PROVIS.	EQ	CAT.	9	M6	III	9	90	5 L	274 335 601	E1 3	E	CLASS	2°LABEL	PACK GR.	LQ	EMS	PROVIS.	EQ	9	-	III	5 L	F-A,S-F	274 335	E1	CLASS	2°LABEL	PACK GR.	PASSAGER	PASSAGER CARGO	CARGO	9	-	III	964	450 L 964	450 L A97 /	A158	E1					9	-	III	Y964	30 KG G -	- A97 /	A158	E1				
CLASS	CODE	PACK GR.	LABEL	IDENT.	LQ	PROVIS.	EQ	CAT.																																																							
9	M6	III	9	90	5 L	274 335 601	E1 3	E																																																							
CLASS	2°LABEL	PACK GR.	LQ	EMS	PROVIS.	EQ																																																									
9	-	III	5 L	F-A,S-F	274 335	E1																																																									
CLASS	2°LABEL	PACK GR.	PASSAGER	PASSAGER CARGO	CARGO																																																										
9	-	III	964	450 L 964	450 L A97 /																																																										
A158	E1																																																														
9	-	III	Y964	30 KG G -	- A97 /																																																										
A158	E1																																																														
<p>14.7 TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL73/78 &amp; THE IBC CODE.</p>	<p>NOT APPLICABLE.</p>																																																														



SECTION 15: REGULATORY INFORMATION	
<b>15.1</b> PRODUCT SPECIFIC SAFETY, HEALTH & ENVIRONMENTAL REGULATIONS & LEGISLATION	
<b>EU DIRECTIVES</b>	REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL OF 18 <sup>TH</sup> 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).
<b>STATUTORY INSTRUMENTS</b>	THE CHEMICALS (HAZARD INFORMATION & PACKAGING FOR SUPPLY REGULATIONS 2009 (S.I.2009 No 716).
<b>APPROVED CODE OF PRACTICE</b>	CLASSIFICATION & LABELLING OF SUBSTANCES & PREPARATIONS DANGEROUS FOR SUPPLY. SAFETY DATA SHEETS FOR SUBSTANCES & PREPARATIONS.
<b>GUIDANCE NOTES</b>	WORKPLACE EXPOSURE LIMITS EH40. CHIP FOR EVERYONE HSG 108.
<b>15.2</b> 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.	
<b>ABBREVIATIONS &amp; ACRONYMS:</b>	
<b>MSDS</b>	MATERIAL SAFETY DATA SHEET.
<b>INCI</b>	INTERNATIONAL NOMENCLATURE OF COSMETIC INGREDIENTS.
<b>CAS</b>	CHEMICAL ABSTRACT SERVICE.
<b>IMDG</b>	INTERNATIONAL MARITIME CODE FOR DANGEROUS GOODS.
<b>ADR</b>	ACCORD EUROPEAN SUR LE TRANSPORT DES MARCHANDISES DANGEREUSES PAR ROUTE (EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY ROAD).



<b>RID</b>	INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY RAIL.
<b>ICAO</b>	INTERNATIONAL CIVIL AVIATION ORGANIZATION.
<b>ADN</b>	INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY INLAND WATERWAYS.
<b>GHS</b>	GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION & LABELLING OF CHEMICALS.
<b>TREM CARD</b>	TRANSPORT EMERGENCY CARD.
<b>STOT</b>	SPECIFIC TARGET ORGAN TOXICITY.

DOCUMENTATION REVISION	
DATE	CHANGE DESCRIPTION
10 <sup>TH</sup> APRIL 2018	DATA LAUNCH

*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.*



## 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<sup>TH</sup> MAY 2018

*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.*