CERTIFICATE OF ANALYSIS

Product Name: Lemon Verbena, Essential Oil
LOT NUMBER: 4438906
Product Inci: Lippia Citriodora Leaf Oil
PRODUCT CODE: OELEMOVERB
CAS NUMBER: NOT AVAILABLE
EINECS NUMBER: NOT AVAILABLE
MANUFACTURING METHOD: STEAM DISTILLED
Best Before End: July 2024

ANALYTICAL DETAILS	RANGE	RESULTS
Appearance	LIQUID	-
Colour	PALE YELLOW – DARK YELLOW	-
Odour	CHARACTERISTIC, FRESH LEMON	-
Specific Gravity @ 20°C	0.871 – 0.897	0.893
Refractive Index @ 20°C	1.479 - 1.488	1.482
OPTICAL ROTATION (°C)	-5.0 то +5.0	-1.56

STORAGE CONDITIONS

STORE IN A COOL DRY PLACE AWAY FROM HEAT & SUNLIGHT

Allergen Declaration:

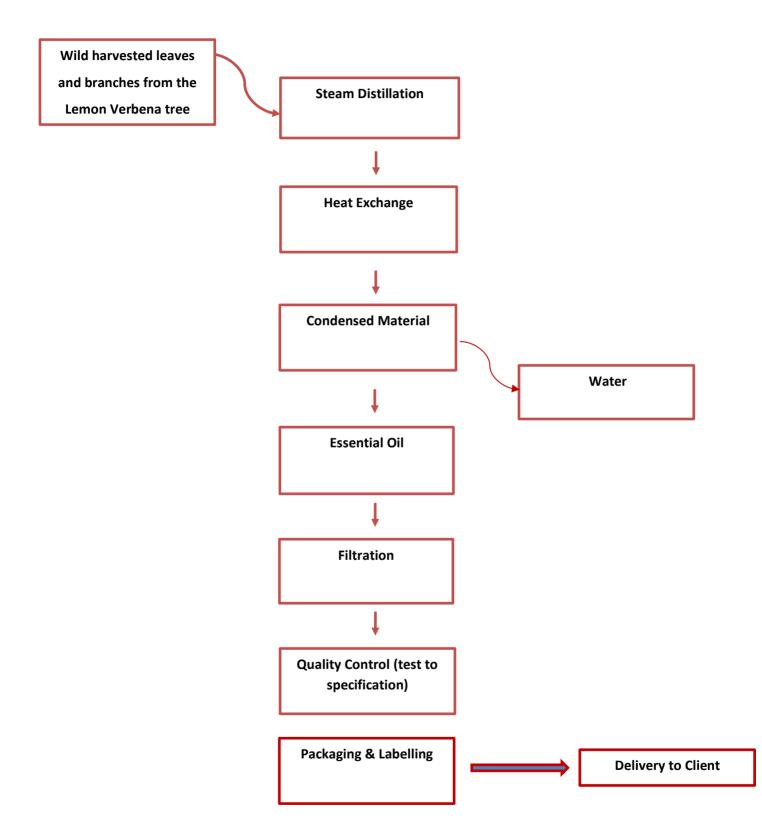
RODUCT NAME: INCI:	Lemon Verbena, Essential Oil Lippia Citriodora Leaf			
The	COSMETIC ALLERGENS Following is from the 7th amendment of the cosmetic directive of the European Union Annex III.			
nex Illa Reference:		CAS NUMBER:	TOTAL ALLERGEN INCLUSION (%):	
67	AMYL CINNAMAL	122-40-7	0.00	
68	BENZYL ALCOHOL	100-51-6	0.00	
69	CINNAMYL ALCOHOL	104-54-1	0.00	
70	CITRAL	5392-40-5	<80.0	
71	EUGENOL	97-53-0	<0.35	
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	
77	COUMARIN	91-64-5	0.00	
78	GERANIOL	106-24-1	<8.25	
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	<2.0	
85	BENZYL BENZOATE	120-51-4	0.00	
86	CITRONELLOL	106-22-9	<2.2	
87	HEXYL CINNAM-ALDEHYDE	101-86-0	0.00	
88	LIMONENE	5989-27-5	<3.0	
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	
e following is from the comm	FOOD ALLERGENS islan directive 2007/68/EC of 27th November 2007 amending Annex Wa to Directive 200/13/EC of the European Park	ament & Council with regards to specific food ing	yredients.	
nex 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

Composition Statement & Manufacturing Flow Chart:

MADAR can hereby confirm the following composition breakdown & manufacturing process flow;

Lemon Verbena, Essential Oil

INCI Name	% Inclusion	CAS Number
Lippia Citriodora Leaf	100	Not available





GMO Statement

PRODUCT NAME: LEMON VERBEN

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

Vegetarian & Vegan Suitability Statement

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

08/12/20

IFRA STATEMENT

PRODUCT NAME: LEMON VERBENA, ESSENTIAL OIL

PRODUCT INCI: LIPPIA CITRIODORA LEAF OIL

MADAR CORPORATION CERTIFY THAT THE ABOVE-MENTIONED MATERIAL CONFORMS TO THE IFRA 49 CODE OF PRACTICE AND CONTAINS THE FOLLOWING RESTRICTED COMPONENTS THAT ARE LISTED IN THE 49th Amendment of THE IFRA CODE OF PRACTICE:

Restricted Component	Cas No:	% Level in Product	IFRA Standard
Limonene	5989-27-5	≤ 11.500	Specification
Linalool	78-70-6	≤ 3.000	Specification
Citral	5392-40-5	≤ 76.000	Restriction
Citronellal	106-23-0	≤ 5.100	Restriction
Citronellol	106-22-9	≤ 3.400	Restriction
Eugenol	97-53-0	≤ 0.600	Restriction
Farnesol	4602-84-0	≤ 0.100	Restriction, Specification
Farnesal	19317-11-4	≤ 0.001	Restriction
Geraniol	106-24-1	≤ 11.300	Restriction
3,7-dimethyl 3,6-octadienal	55722-59-3, 1754-00-3, 72203-98-6, 72203-97-5	≤ 1.440	Restriction
lsoeugenol	97-54-1	≤ 0.500	Restriction

Additional comments:

Flavour use consideration - Due to the possible ingestion of small amounts of fragrance ingredients from their use in products in Categories 1 and 6, materials must not only comply with IFRA Standards but must also be recognized as safe as a flavouring ingredient as defined by the IOFI Code of Practice (www.iofi.org). For more details see chapter 1 of the Guidance for the use of IFRA Standards.

Farnesol should only be used as a fragrance ingredient if it contains a minimum of 96% of farnesol isomers as determined by GLC.

IFRA Category	% Maximum Use Level
IFRA Category 1	0.14
IFRA Category 2	0.04
IFRA Category 3	0.13
IFRA Category 4	0.79
IFRA Category 5A	0.20
IFRA Category 5B	0.20
IFRA Category 5C	0.20
IFRA Category 5D	0.07
IFRA Category 6	0.46
IFRA Category 7A	0.26
IFRA Category 7B	0.26
IFRA Category 8	0.07
IFRA Category 9	1.58
IFRA Category 10A	1.58
IFRA Category 10B	5.53
IFRA Category 11A	0.07
IFRA Category 11B	0.07
IFRA Category 12	Not restricted

IFRA Category	Product Type	Flavour Use	Phototoxicity
Category 1	Lip Products of all types (solid and liquid lipsticks, balms, clear or coloured, etc.). Children's toys.	Yes	Applicable (leave-on products)
Category 2	Deodorant and antiperspirant products of all types including any product with intended or reasonably foreseeable use on the axillae or labelled as such (spray, stick, roll-on, under-arm, deo-cologne, etc.). Body sprays (including body mist)	No	Applicable (leave-on products)
Category 3	Eye products of all types (eye shadow, mascara, eyeliner, eye make-up, eye masks, eye pillows, etc.) including eye care and moisturizer Facial make up and foundation. Make-up remover for face and eyes. Nose pore strips. Wipes or refreshing tissues for face, neck, hands, body. Body and face paint (for children and adults). Facial masks for face and around the eyes	No	Applicable (leave-on products)
Category 4	Hydro alcoholic and non-hydro alcoholic fine fragrance of all types (Eau de Toilette, Parfum, Cologne, solid perfume, fragrancing cream, aftershaves of all types, etc.). Fragranced bracelets. Ingredients of perfume kits and fragrance mixtures for cosmetic kits. Scent pads, foil packs. Scent strips for hydro alcoholic products	No	Applicable (leave-on products)
Category 5A	Body creams, oils, lotions of all types. Foot care products (creams and powders). Insect repellent (intended to be applied to the skin). All powders and talc (excluding baby powders and talc).	No	Applicable (leave-on products)
Category 5B	Facial toner. Facial moisturizers and creams	No	Applicable (leave-on products)
Category 5C	(women facial creams) Hand cream. Nail care products including cuticle creams, etc. Hand sanitizers	No	Applicable (leave-on products)
Category 5D	Baby cream/lotion, baby oil, baby powders and talc.	No	Applicable (leave-on products)
Category 6	Toothpaste. Mouthwash, including breath sprays. Toothpowder, strips, mouthwash tablets	Yes	Applicable (leave-on products)

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

Material Safety Data Sheet

EU Regulation: 1907/2006

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING					
1.1 Product Identification					
Product Name	Lemon Verbena, Essi	ENTIAL OIL			
BIOLOGICAL DEFINITION	The volatile oil stea	The volatile oil steam distilled from the leaves of Thymus hiemalis.			
INCI NAME	Lippia Citriodora Leaf Oil				
Synonyms & Trade Names	-				
INTERNAL PRODUCT CODE	OELEMOVERB				
CAS-No	NA	EC No.	NA	EINECS NO.	NA
1.2 Details of the supplier of the safety data sheet					
Company Address	MADAR Corporation Ltd 19-20 Sandleheath Industrial Estate, Fordingbridge, Hampshire, SP6 1PA				
EMAIL	TECHNICAL@MADARCORPORATION.CO.UK				
1.3 Details of the supplier of the safety data sheet					
EMERGENCY CONTACTS	+44 1425 655555	DURING OF	FICE HOURS		

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: NONE HUMAN HEALTH: H318 CAUSES SERIOUS EYE DAMAGE H315 CAUSES SKIN IRRITATION. H317 MAY CAUSE AN ALLERGIC SKIN REACTION. H411 TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS.		
2.2 LABEL ELEMENTS	Label in accordance with Regulation (EC) No 1272/2008.		
GHS LABEL	GHS05 GHS07 GHS09		
Signal Word	DANGER.		
Contains	Geraniol.		
HAZARDS STATEMENT	H318CAUSES SERIOUS EYE DAMAGE.H315CAUSES SKIN IRRITATION.H317MAY CAUSE AN ALLERGIC SKIN REACTION.H411TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS.		
Precautionary Statements	 P280: WEAR PROTECTIVE GLOVES/PROTECTIVE CLOTHING/EYE PROTECTION/FACE PROTECTION. P305+P351+P338: IF IN EYES: RINSE CAUTIOUSLY WITH WATER FOR SEVERAL MINUTES. REMOVE CONTACT LENSES, IF PRESENT AND EASY TO DO. CONTINUE RINSING. P310: IMMEDIATELY CALL A POISON CENTER/DOCTOR. P501: DISPOSE OF CONTENTS IN ACCORDANCE WITH LOCAL, STATE OR NATIONAL LEGISLATION. P261: AVOID BREATHING DUST/FUME/GAS/MIST/VAPOURS/SPRAY. P333+P313: IF SKIN IRRITATION OR RASH OCCURS: GET MEDICAL ADVICE/ATTENTION. P362+P364: TAKE OFF CONTAMINATED CLOTHING. AND WASH IT BEFORE REUSE. P302+P352: IF ON SKIN: WASH WITH PLENTY OF WATER. P273: AVOID RELEASE TO THE ENVIRONMENT. P391: COLLECT SPILLAGE. 		
SUPPLEMENTARY PRECAUTIONARY STATEMENTS	P264: WASH HANDS AND EXPOSED SKIN THOROUGHLY AFTER HANDLING. P332+P313: IF SKIN IRRITATION OCCURS: GET MEDICAL ADVICE/ATTENTION.		
	SECTION 16 (OTHER INFORMATION): RISK & SAFETY PHRASES IN FULL.		
2.3 Other Hazards			
Adverse physio-chemical properties	NO DATA		
Adverse effects on human health	ΝΟ ΔΑΤΑ		
PBT OR VPVB ACCORDING TO ANNEX XIII	NO DATA		
SECTION 3: COMPOSITION OF INGREDIEN	ITS		
3.2 Mixtures	 ≤70.2% CITRAL CAS-NO.: 5392-40-5 EC NO.: 226-394-6 CLASSIFICATION (EC 1272/2008) SKIN IRRIT. 2 - H315; SKIN SENS. 1 - H317, EYE IRRIT. 2 - H319 ≤7.59% Geraniol CAS-NO.: 106-24-1EC NO.: 203-377-1 CLASSIFICATION (EC 1272/2008) SKIN IRRIT. 2 - H315, SKIN SENS. 1 - H317, EYE DAM. 1 - H318 		

≤ 4.00 Citronellal CAS-No.: 106-23-0 EC No.: 203-376-6 Classification (EC 1272/2008) Skin Irrit. 2 – H315, Skin Sens. 1 – H317, Eye Irrit. 2 – H319, Aquatic Chronic 2 – H411
≤ 3.8% d-Limonene CAS-No.: 5989-27-5 EC No.: 227-813-5 Classification (EC 1272/2008) Flam. Liq. 3 - H226; ASp. Tox. 1 - H304; Skin Irrit. 2 - H315; Skin Sens. 1 - H317; Aquatic Acute 1 - H400, Aquatic Chronic 1 - H410
≤ 0.25% CITRONELLOL CAS-NO.: 106-22-9 EC NO.: 203-375-0 Classification (EC 1272/2008) Skin Irrit. 2 – H315, Skin Sens. 1B - H317, Eye Irrit. 2 – H319
≤ 0.33% Linalool CAS-NO.: 78-70-6 EC NO.: 201-134-4 Classification (EC 1272/2008) Skin Irrit. 2 – H315
≤ 0.11% ALPHA - PINENE CAS-NO.: 80-56-8 EC NO.: 201-291-9 CLASSIFICATION (EC 1272/2008) FLAM. LIQ. 3 – H226, ASP. TOX. 1 - H304, SKIN IRRIT. 2 - H315, SKIN SENS. 1A – H317, AQUATIC ACUTE 1 - H400, AQUATIC CHRONIC 1 – H410
≤ 0.17% beta- Pinene CAS-No.: 127-91-3 EC No.: 204-872-5 Classification (EC 1272/2008) Flam. Liq. 3 – H226, Asp. Tox. 1 - H304, Skin Irrit. 2 - H315, Skin Sens. 1A – H317, Aquatic Acute 1 - H400, Aquatic Chronic 1 – H410
≤ 0.16% SABINENE CAS-NO.: 3387-41-5 EC NO.: 222-212-4 Classification (EC 1272/2008) Flam. Liq. 3 – H226, ASP. Tox. 1 – H304
≤ 0.14% Myrcene CAS-No.: 123-35-3 EC No.: 204-622-5 Classification (EC 1272/2008) Flam. Liq. 3 – H226, ASp. Tox. 1 – H304, Skin Irrit. 2 - H315, Eye Irrit. 2 – H315, Eye Irrit. 2 – H319
≤ 0.01% Methyl Eugenol CAS-No.: 93-15-2 EC No.: 202-223-0 Classification (EC 1272/2008) Acute Tox. 4 – H302, Muta. 2 H341, Carc. 2 – H351

SECTION 4: FIRST AID MEASURES			
4.1			
DESCRIPTION OF FIRST AID MEASURES			
GENERAL INFORMATION	ALWAYS REMOVE CONTAMINATED CLOTHING IMMEDIATELY.		
INHALATION	GET MEDICAL ATTENTION IMMEDIATELY. REMOVE FROM EXPOSURE SITE TO FRESH AIR, KEEP AT REST, AND OBTAIN MEDICAL ATTENTION.		
INGESTION	GET MEDICAL ATTENTION IMMEDIATELY. RINSE MOUTH WITH WATER AND OBTAIN MEDICAL ATTENTION.		
Skin Contact	REMOVE CONTAMINATED CLOTHES. WASH THOROUGHLY WITH SOAP AND WATER. CONTACT PHYSICIAN IF IRRITATION PERSISTS.		
EYE CONTACT	FLUSH IMMEDIATELY WITH WATER FOR AT LEAST 15 MINUTES. CONTACT PHYSICIAN IF SYMPTOMS PERSIST.		
4.2 MOST IMPORTANT SYMPTOMS & EFFECTS (ACUTE & DELAYED)	INHALATION MAY CAUSE COUGHING AND DIFFICULTIES IN BREATHING. INGESTION IRRITATING TO THE RESPIRATORY TRACT AND MAY CAUSE DAMAGE TO THE CENTRAL NERVOUS SYSTEM. SKIN CONTACT TOXIC IN CONTACT WITH SKIN. EYE CONTACT MAY CAUSE EYE IRRITATION.		
4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION OR SPECIAL TREATMENT REQUIRED	NONE EXPECTED, SEE SECTION 4.1 FOR FURTHER INFORMATION.		

SECTION 5: FIRE FIGHTING MEASURES		
5.1 Extinguishing material	FOAM, CO2, DRY CHEMICAL POWDER.	
5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE		
5.3 Advice for fire-fighters	SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS: WEAR POSITIVE-PRESSURE SELF-CONTAINED BREATHING APPARATUS (SCBA) AND APPROPRIATE PROTECTIVE CLOTHING.	

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions	ENSURE ADEQUATE VENTILATION OF THE WORKING AREA, EVACUATE PERSONNEL TO SAFE AREA, WEAR SUITABLE PROTECTIVE EQUIPMENT. NO SMOKING, SPARKS, FLAMES OR OTHER SOURCES OF IGNITION NEAR SPILLAGE. AVOID CONTACT WITH SKIN, EYES AND CLOTHING.
6.2	Do not discharge into drains, water courses or onto the ground. Dispose of in line with Local authority
ENVIRONMENTAL PRECAUTIONS	GUIDELINES.
6.3 Methods & material for containment and cleaning UP	Remove ignition sources. Provide adequate ventilation. Avoid excessive inhalation of vapours. Contain spillage immediately by use of sand or inert powder. Dispose of according to local regulations.
6.4	REFER & CONSIDER SECTION 8.
REFERENCES TO OTHER SECTIONS	REFER & CONSIDER SECTION 13.

SECTION 7: HANDLING & STORAGE

7.1 Precautions for safe-handling	HANDLE IN ACCORDANCE WITH GOOD HYGIENE AND SAFETY PRACTICE. KEEP AWAY FROM HEAT, SPARKS, OPEN FLAMES AND HOT SURFACES NO SMOKING. USE PERSONAL PROTECTIVE EQUIPMENT AS REQUIRED. USE IN ACCORDANCE WITH GOOD MANUFACTURING AND INDUSTRIAL HYGIENE PRACTICES. USE IN AREAS WITH ADEQUATE VENTILATION DO NOT EAT, DRINK OR SMOKE WHEN USING THIS PRODUCT.
7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES	KEEP THE PRODUCT CONTAINER TIGHTLY CLOSED, IN A DRY, VENTILATED AREA. KEEP AWAY FROM POTENTIAL SOURCES OF IGNITION AND PROTECTED FROM LIGHT. MAINTAIN LIMITED CONTACT WITH OXYGEN.
7.3 Specific end use(s)	NO DATA.

SECTION 8: EXPOSURE CONTROLS & PERSONAL PROTECTION

8.1 Control Parameters	NO DATA.	
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	WEAR SUITABLE PROTECTION TO AVOID CONTACT WITH SKIN AND EYES. DO NOT INHALE VAPOURS.	
PROCESS CONDITIONS	ENSURE AREA IS WELL VENTILATED. AVOID VAPOUR INHALATION. SAFETY SHOWER & EYE BATH.	
ENVIROMENTAL EXPOSURE CONTROLS	AVOID DISCHARGING INTO DRAINAGE WATER.	

SECTION 9: PHYSICAL & CHEMICAL PROPERTIES

9.1 Physical & Chemical Properties		
Appearance	Liquid	
COLOUR	Pale yellow – Yellow	
Odour	Characteristic - Fresh, lemony, sweet & fruity	
RELATIVE DENSITY	0.884 @ 20°C	
FLASH POINT (°C)	69°C	
REFRACTIVE INDEX @ 20 °C	Approx. 1.483 @ 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 $^{\circ}$ C).	
10.3 Possibility of hazardous reactions	No.	
10.4 Conditions to avoid	STORAGE AT HIGH TEMPERATURES. DO NOT STORE ABOVE 15°C.	
10.5 Incompatible materials	P.V.C	
10.6 HAZARDOUS DECOMPOSITION PRODUCTS	This product does not decompose under normal conditions. Under fire conditions the product will produce a mixture of irritating fumes & smoke & carbon monoxide.	

SECTION 11: TOXICOLOGICAL INFORMATION	
11.1 Toxicological effects	
Αсυτε Τοχιςιτγ	NO DATA.

Skin irritation	Considered a skin irritant (Route: DRM). There may be irritation and redness at site of contact.
	CONTACT.
Eye damage or irritation	CAUSES SERIOUS EYE IRRITATION.
R ESPIRATORY OR SKIN SENSITIVITY	MAY CAUSE AN ALLERGIC SKIN REACTION.
GERM CELL MUTAGENICITY	NOT APPLICABLE.
CARCINOGENICITY	NOT APPLICABLE.
REPRODUCTIVE TOXICITY	NOT APPLICABLE.
STOT – SINGLE EXPOSURE	NOT APPLICABLE.
STOT – REPEATED EXPOSURE	NOT APPLICABLE.
Aspiration Hazard	NO DATA.
Other Information	NO DATA.

SECTION 12: ECOLOGICAL INFORMATION

Toxic to aquatic life with long lasting effects.
NO DATA.
NO DATA.
NO DATA.
NO DATA.
Do not allow product to enter streams, sewers or other waterways.
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	
UN NUMBER	ROAD: 3082 RAIL: 3082 AIR: 3082
14.2 UN Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE LIQUID N.O.S.
14.3 Transport hazard class(es)	ADR/RID/ADN CLASS 9: MISCELLANEOUS DANGEROUS SUBSTANCES AND ARTICLES. IMDG CLASS 9 ICAO CLASS/DIVISION 9 TRANSPORT LABELS

	Biscell Aleous oddensus 9
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
14.6 Special precautions for user	Tunnel Restriction Code: A,B,C,D
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	 H226 Flammable liquid and vapour. H302 Harmful if swallowed. H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage H319 Causes serious eye irritation. H319 Causes serious eye irritation. H311 Suspected of causing genetic defects. H315 Suspected of causing cancer H400 Very toxic to aquatic life with long lasting effects. H411 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.	
ADR	ACCORD EUROPEAN SUR LE TRANSPORT DES MERCHANDISES DANGEREUSES PAR ROUTE (EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY ROAD).	
RID	International Carriage of Dangerous Goods by Rail.	
ICAO	INTERNATIONAL CIVIL AVIATION ORGANIZATION.	
ADN	INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY INLAND WATERWAYS.	
GHS	GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION & LABELLING OF CHEMICALS.	
TREM CARD	TRANSPORT EMERGENCY CARD.	
STOT	SPECIFIC TARGET ORGAN TOXICITY.	

DOCUMENTATION REVISION	
DATE	CHANGE DESCRIPTION
10 [™] April 2018	Data Launch

SPECIFICATION SHEET

PRODUCT NAME: LEMON VERBENA, ESSENTIAL OIL

PRODUCT INCI: LIPPIA CITRIODORA LEAF OIL

PRODUCT CODE: OELEMOVERB

CAS NUMBER: NOT AVAILABLE EINECS NUMBER: NOT AVAILABLE

MANUFACTURING METHOD: STEAM DISTILLED

ANALYTICAL DETAILS	RANGE
Appearance	LIQUID
COLOUR	Pale Yellow – Dark Yellow
Odour	Characteristic, Fresh Lemon
SPECIFIC GRAVITY @ 20°C	0.871 – 0.897
Refractive Index @ 20°C	1.479 – 1.488
OPTICAL ROTATION (°C)	-5.0 то +5.0

STORAGE CONDITIONS

Store in a cool dry place away from heat & sunlight

DOCUMENTATION REVIEW DATE:

24th May 2018