### **CERTIFICATE OF ANALYSIS**

### PRODUCT NAME: NEROLI TUNISIAN NATURAL, ESSENTIAL OIL

BATCH NUMBER: 4412708
PRODUCT INCI: CITRUS AURANTIUM FLOWER OIL
PRODUCT CODE: OENEROTUNI
Cas Number: 8016-38-4 / 72968-50-4
EINECS NUMBER: 277-143-2
MANUFACTURING METHOD: STEAM DISTILLATION
BEST BEFORE END: OCTOBER 2023

ANALYTICAL DETAILS	RANGE	RESULTS
Appearance	LIQUID	-
COLOUR	Yellow	-
Odour	CHARACTERISTIC, FLORAL & FRESH	-
Specific Gravity @ 20°C	0.866 - 0.880	0.874
Refractive Index @ 20°C	1.468 - 1.474	1.468
OPTICAL ROTATION (°C)	+1.0 TO +11.5	+1.0

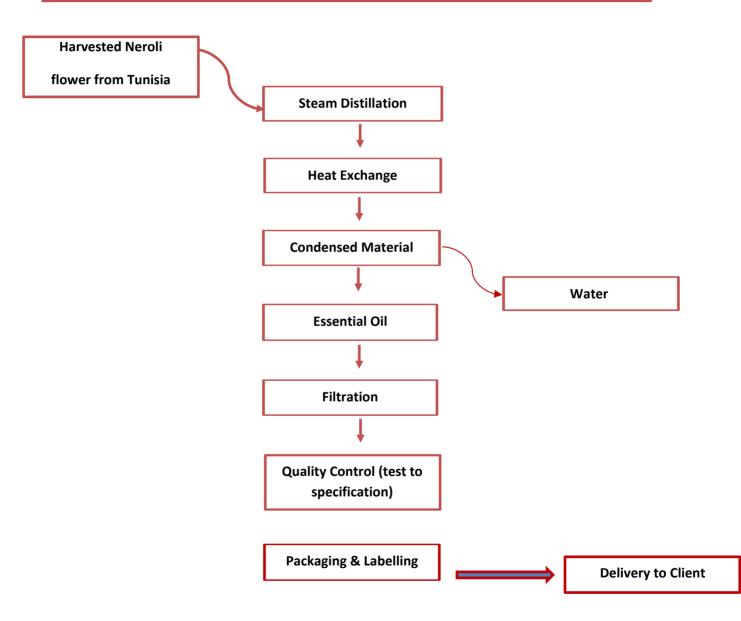
STORAGE CONDITIONS STORE IN A COOL DRY PLACE AWAY FROM HEAT & SUNLIGHT

### Allergen Declaration Neroli Tunisia

RODUCT NAME:	Neroli, Essential Oil			
INCI:	Citrus Aurantium Flower			
	COSMETIC ALLERGENS			
Th	e Following is from the 7th amendment of the cosmetic directive of the European Union Annex III.			
nnex 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	0.30	
71	EUGENOL	97-53-0	0.00	
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 CINNAMAL	118-58-1 104-55-2	0.00	
76				
77	COUMARIN	91-64-5	0.00	
78	GERANIOL	106-24-1	3.50	
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	4.00	
83	BUTYLPHENYL METHYLPROPIONAL	80-54-6	0.00	
84	LINALOOL	78-70-6	44.00	
85	BENZYL BENZOATE	120-51-4	0.00	
86	CITRONELLOL	106-22-9	0.00	
87	HEXYL CINNAM-ALDEHYDE	101-86-0	0.00	
88	LIMONENE	5989-27-5	18.00	
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	
e following is from the com	FOOD ALLERGENS mission directive 2007/68/EC of 27th November 2007 amending Annex IIIa to Directive 200/13/EC of the European Parli	ament & Council with regards to specific food ing	redients.	
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
14	MOLLUSC	NO	NO	NO

### Manufacturing Flow Chart Neroli Tunisia, Essential Oil

INCI Name	% Inclusion	CAS Number
Citrus Aurantium Flower	100	8016-38-4 / 72968-50-4



### IFRA STATEMENT

PRODUCT NAME: NEROLI TUNISIA, ESSENTIAL OIL

PRODUCT INCI: CITRUS AURANTIUM FLOWER

PRODUCT CODE: OENEROTUNI

CAS NUMBER: 68916-04-1 / 72968-50-4

EINECS NUMBER: 277-143-2

MANUFACTURING METHOD: STEAM DISTILLATION

Shelf Life / Best Before: 24 months

### MADAR 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 $48^{\text{TH}}$ Amendment OF THE IFRA CODE OF PRACTICE:

Restricted Component	Cas No:	% Level in Product	IFRA Standard
Linalool	78-70-6	< 39.6	Specification Std
Limonene	5989-27-5	< 13.9	Specification Std
Citral	5392-40-5	< 0.4	Restriction Stds (QRA cat.)
Eugenol	97-53-0	< 0.1	Restriction Stds (QRA cat.)
Benzyl Salicylate	118-58-1	< 0.1	Restriction Stds (QRA cat.)
Geraniol	106-24-1	< 6.3	Restriction Stds (QRA cat.)
Farnesol	4602-84-0	< 3.5	Restriction Stds (QRA cat.)
Benzyl Benzoate	120-51-4	< 0.1	Restriction Stds (QRA cat.)
Citronellol	106-22-9	< 2.0	Restriction Stds (QRA cat.)
Benzaldehyde	100.52-7	< 0.1	Restriction Stds (QRA cat.)
Carvone	99-49-0	< 0.1	Restriction Stds (QRA cat.)
Perilla Aldehyde	2111-75-3	< 0.1	Restriction Stds (QRA cat.)
Phenyl acetaldehyde	122-78-1	< 0.1	Restriction Stds (QRA cat.)
Trans-2-Hexanal	6728-26-3	< 0.1	Restriction Stds (QRA cat.)
Benzyl Cyanide from Naturals	140-29-4	< 0.1	Prohibition Stds (see below)
Furfural	98-01-1	< 0.1	Restriction Stds (non QRA)

IFRA Classes	% Maximum Use Level
Class 1	1.0
Class 2	1.0
Class 3A, 3B, 3C, 3D	1.0
Class 4A, 4B, 4C, 4D	1.0
Class 5	1.0
Class 6	1.0
Class 7A, 7B	1.0
Class 8A, 8B	1.0
Class 9A	1.0
Class 9B	50.0
Class 9C	50.0
Class 10A	50.0
Class 10B	1.0
Class 11	50.0

### Comments:

Benzyl Cyanide from Naturals - On the basis of established maximum levels of this substance in commercially available natural sources (like essential oils and extracts), exposure to this substance from the use of these oils and extracts is not significant and the use of these oils authorized as long as the level of benzyl cyanide in the finished product does not exceed 100ppm.

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
l'ampons.	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
ntimate Wipes; Baby Wipes.	Class 7 A
nsect 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
-eminine 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: 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).	Class 11.B

### **Material Safety Data Sheet**

EU Regulation: 1907/2006

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING					
	THE SUBSTANCE,				
1.1 Product Identification					
Product Name	Neroli TUNISIA, Ess	ENTIAL OIL			
BIOLOGICAL DEFINITION	A NATURAL BLEND OF CITRUS AURANTIUM L.			IN OF THE FRAGRANT	WHITE BLOSSOMS OF THE BITTER ORANGE TREE
INCI NAME	CITRUS AURANTIUM FLOWER				
Synonyms & Trade Names	Bitter Orange Flower Oil, Neroli Oil True				
INTERNAL PRODUCT CODE	OENEROTUNI				
CAS-No	68916-04-1 / 72968-50-4	EC No.	277-143-2	EINECS No.	277-143-2
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.				
EMAIL	TECHNICAL@MADARCORPORATION.CO.UK				
1.3 Details of the supplier of the safety data sheet					
	01425 655555 DU	RING OFFICE H	OURS		

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)	
2.2 LABEL ELEMENTS	LABEL IN ACCORDANCE WITH REGULATION (EC) NO 1272/2008.
GHS LABEL	GHS07 GHS05 GHS09
SIGNAL WORD	DANGER.
Contains	601-029-00-7 (R)-P-MENTHA-1,8-DIENE EC 203-377-1 GERANIOL EC 204-872-5 B-PINENE EC 201-291-9 ALPHA-PINENE X EC 203-375-0 CITRONELLOL EC 225-004-1 FARNESOL.
HAZARDS STATEMENT	H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H411 Toxic to aquatic life with long lasting effects.
Precautionary Statements	P272 Contaminated work clothing should not be allowed out of the workplace. P273 Avoid release to the environment. 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.
SUPPLEMENTARY PRECAUTIONARY STATEMENTS	P501 Dispose of contents/container to
	ECTION 16 (OTHER INFORMATION): RISK & SAFETY PHRASES IN FULL.
2.3	
THER HAZARDS Adverse physio-chemical properties	TOXIC TO AQUATIC LIFE.
Adverse effects on human health	MAY BE HARMFUL IF SWALLOWED MAY BE HARMFUL IN CONTACT WITH SKIN.
PBT OR VPVB ACCORDING TO ANNEX XIII	No Data.

CLASSIFICATION (EC 1272/2008) ACUTE TOX. 5 - H303, SKIN IRRIT. 2 - H315, AQUATIC ACUTE 3 - H402 10.0 - 25.0% LINALYL ACETATE CAS: 115-95-7, EC: 204-116-4

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MIXTURES

CLASSIFICATION (EC 1272/2008) SKIN IRRIT. 2, H315; EYE IRRIT. 2, H319
< 13.9% (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,
M ACUTE = 1, AQUATIC CHRONIC 1, H410 M CHRONIC = 1
2.5 - 10.0% NEROL CAS: 106-25-2, EC: 203-378-7
CLASSIFICATION (EC 1272/2008) EYE IRRIT. 2, H319, SKIN IRRIT. 2, H315
< 6.3% Geraniol CAS: 106-24-1, EINECS: 203-377-1
CLASSIFICATION (EC 1272/2008) EYE DAM. 1, H318; SKIN IRRIT. 2, H315; SKIN SENS. 1, H317
2.5 - 10.0% B-PINENE CAS: 127-91-3, EC: 204-872-5
CLASSIFICATION (EC 1272/2008) ASP. TOX. 1, H304, FLAM. LIQ. 3, H226, SKIN IRRIT. 2, H315, SKIN SENS. 1, H317
<b>2.5 – 10.0% Terpinyl Acetate</b> CAS: 80-26-2, EC: 201-265-7
CLASSIFICATION (EC 1272/2008) AQUATIC CHRONIC 2, H411
<b>2.5 – 10.0% Alpha-Pinene X</b> CAS: 80-56-8, EC: 201-291-9 Classification (EC 1272/2008) ASP. Tox. 1, H304, Flam. Liq. 3, H226, Skin Irrit. 2, H315, Skin Sens. 1, H317
CLASSIFICATION (EC 1 2/ 2/ 2006) ASP. TOX. 1, ISU4, FLAM. LIQ. 3, IZZO, SKIN IKKII. 2, IST 5, SKIN SENS. 1, IST
< 2.0% CITRONELLOL CAS-NO.: 106-22-9EC NO.: 203-375-0
CLASSIFICATION (EC 1272/2008) EYE IRRIT. 2, H319, SKIN IRRIT. 2, H315, SKIN SENS. 1, H317
2.5 – 10.0% NEROLIDOL (ISOMER UNSPECIFIED) CAS: 7212-44-4, EINECS: 230-597-5
Classification (EC 1272/2008) Eye IRRIT. 2, H319, Aquatic Acute 1, H400 M Acute = 1, Aquatic Chronic 1,
H410
M CHRONIC = 1
<b>2.5 – 10.0% Geranyl Acetate</b> CAS-No.: 105-87-3 EC No.: 203-341-5
Classification (EC 1272/2008) Skin Irrit. 2, H315; Skin Sens. 1B, H317; Aquatic Chronic 3,
H412
< 3.5% FARNESOL CAS: 4602-84-0, EINECS: 225-004-1 CLASSIFICATION (EC 1272/2008) EYE IRRIT. 2, H319, SKIN IRRIT. 2, H315, SKIN SENS. 1, H317
CASSIFICATION (LC + 2/2/2000) ETE IKKII. 2, IS + 7, SKIN IKKII. 2, IS + 3, SKIN SENS. 1, IS + 7
2.5 - 10.0% TERPINEOL CAS: 8000-41-7, EINECS: 232-268-1
CLASSIFICATION (EC 1272/2008) EYE IRRIT. 2, H319, SKIN IRRIT. 2, H315

SECTION 4:	FIRST AID	MEASURES
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4.1	
DESCRIPTION OF FIRST AID MEASURES	
GENERAL INFORMATION	ALWAYS REMOVE CONTAMINATED CLOTHING IMMEDIATELY.
INHALATION	GET MEDICAL ATTENTION IMMEDIATELY. REMOVE FROM EXPOSURE SITE TO FRESH AIR, KEEP AT REST, AND OBTAIN MEDICAL ATTENTION.
INGESTION	GET MEDICAL ATTENTION IMMEDIATELY. IMMEDIATELY CALL THE DOCTOR. 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	INHALATION : CAN CAUSE SLIGHT HEADACHE.
MOST IMPORTANT SYMPTOMS & EFFECTS (ACUTE &	SKIN CONTACT : CAN CAUSE SLIGHT SKIN RASH.
DELAYED)	EYE CONTACT : CAN CAUSE BLOODSHOT EYES.
4.3	IMMEDIATE MEDICAL ASSISTANCE : SEE POINT 4.1.
INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION OR	IMMEDIATE/ SPECIAL TREATMENT: SEE POINT 4.1.
SPECIAL TREATMENT REQUIRED	First aid specific means : Eye wash fountain/safety shower should be available in the work area.

SECTION 5: FIRE FIGHTING MEASURES	
5.1 Extinguishing material	FOAM, CO2, DRY CHEMICAL POWDER.
5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE	BURNING PRODUCES IRRITATING, TOXIC AND OBNOXIOUS FUMES
5.3	SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS:
Advice for fire-fighters	WEAR POSITIVE-PRESSURE SELF-CONTAINED BREATHING APPARATUS (SCBA) AND APPROPRIATE PROTECTIVE CLOTHING.
SECTION 6: ACCIDENTAL RELEASE MEASUR	ES

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. AVOID INHALATION.
6.2 ENVIRONMENTAL PRECAUTIONS	DO NOT DISCHARGE INTO DRAINS, WATER COURSES OR ONTO THE GROUND. DISPOSE OF IN LINE WITH LOCAL AUTHORITY GUIDELINES.
6.3 Methods & material for containment and cleaning UP	REMOVE IGNITION SOURCES. PROVIDE ADEQUATE VENTILATION. AVOID EXCESSIVE INHALATION OF VAPOURS. CONTAIN SPILLAGE IMMEDIATELY BY USE OF SAND OR INERT POWDER. DISPOSE OF ACCORDING TO LOCAL REGULATIONS. COVER WITH AN INERT, INORGANIC, NON-COMBUSTIBLE ABSORBENT MATERIAL (E.G DRY-LIME, SAND, SODA ASH).
6.4 REFERENCES TO OTHER SECTIONS	REFER & CONSIDER SECTION 12.

### 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	STORAGE CLASS: FLAMMABLE LIQUID STORAGE. STORE ONLY IN THE ORIGINAL RECEPTACLE. KEEP CONTAINER TIGHTLY SEALED. KEEP IN COOL, DRY, VENTILATED STORAGE AND CLOSED CONTAINERS. KEEP AWAY FROM HEAT.								
7.3 Specific end use(s)	Risk Management Methods (RMM) The information required is contained in this Material Safety Data								
SECTION 8: EXPOSURE CONTROLS & PERSONAL PROTECTION									
	Occupational exposure limits :								
	-ACGIH TLV (American Conference of Governmental Industrial Hygienists, Threshold Limit Values, 2010) :								
8.1 Control Parameters	CAS TWA : STEL : Ceiling : Definition : Criteria :								
	127-91-3 20 ppm								

8.2

EXPOSURE CONTROLS

80-56-8 20 ppm

EYE PROTECTION	WEAR PROTECTIVE GLOVES/EYE PROTECTION/FACE PROTECTION. AVOID CONTACT WITH EYES. WEAR APPROVED SAFETY GOGGLES. (EN166)
HAND PROTECTION	Avoid contact with skin. Wash hands before breaks and at end of work. Wear Protective gloves. DIN/EN 374. The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Penetration time of glove material: The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
RESPIRATORY EQUIPMENT	DO NOT INHALE GASES / FUMES / AEROSOLS. CERTIFIED RESPIRATORY PROTECTIVE DEVICE RECOMMENDED.
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. AVOID CONTACT WITH SKIN AND EYES. USE PERSONAL PROTECTION ACCORDING TO DIRECTIVE 89/686/EEC.
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 COLOURLESS TO PALE YELLOW. ODOUR CHARACTERISTIC, STRONG NEROLI NOTE. FRESH & FLORAL RELATIVE DENSITY @ 20°C 0.866 TO 0.880 @ 20°C FLASH POINT (°C) 61 °C. **REFRACTIVE INDEX @ 20** °C 1.468 to 1.474 @ 20°C SOLUBILITY IN WATER @ 20 °C INSOLUBLE IN WATER 9.2 ΝΟ ΠΑΤΑ. **OTHER INFORMATION SECTION 10: STABILITY & REACTIVITY** 10.1 NO DATA. REACTIVITY 10.2 STABLE UNDER SUGGESTED STORAGE CONDITIONS (<15°C). CHEMICAL STABILITY 10.3 NONE UNDER NORMAL PROCESSING. **POSSIBILITY OF HAZARDOUS REACTIONS** 10.4 STORAGE AT HIGH TEMPERATURES. DO NOT STORE ABOVE 15°C. AVOID HEAT, FLAMES AND OTHER SOURCES OF IGNITION. **CONDITIONS TO AVOID** 10.5 AVOID CONCENTRATED ACIDS, ALKALIS & OXIDISING AGENTS. INCOMPATIBLE MATERIALS 10.6 THIS PRODUCT DOES NOT DECOMPOSE UNDER NORMAL CONDITIONS. UNDER FIRE CONDITIONS THE PRODUCT WILL PRODUCE **HAZARDOUS DECOMPOSITION PRODUCTS** A MIXTURE OF IRRITATING FUMES & SMOKE & CARBON MONOXIDE.

11.1 Toxicological effects	
	Acute toxicity : TERPINEOL (CAS: 8000-41-7) Oral route : LD50 = 4300 mg/kg
	CITRONELLOL (CAS: 106-22-9) Oral Route : LD50 = 2650 mg/kg Dermal Route : LD50 = 2650 mg/kg
	ALPHA-PINENE X (CAS: 80-56-8) Oral route : LD50 = 3700 mg/kg
	GERANIOL (CAS: 106-24-1) Oral route : LD50 = 4200 mg/kg
	NEROL (CAS: 106-25-2) Oral route : LD50 = 4500 mg/kg LINALOOL (CAS: 78-70-6)
Si	ORAL ROUTE : LD50 = 3000 Mg/kg. MAY CAUSE AN ALLERGIC REACTION BY SKIN CONTACT. CORROSIVITY : NO OBSERVED EFFECT.
Eye damage	OR IRRITATION OR
RESPIRATORY OR SK	(IN SENSITIVITY HAZARD STATEMENT: H317 MAY CAUSE AN ALLERGIC SKIN REACTION.
Germ cell	MUTAGENICITY NO DATA.
Сар	RCINOGENICITY CAS 5989-27-5 : IARC GROUP 3 : THE AGENT IS NOT CLASSIFIABLE AS TO ITS CARCINOGENICITY TO HUMANS.
Reprodu	CTIVE TOXICITY NO DATA.
STOT – SIN	IGLE EXPOSURE NO DATA.
STOT – REPEA	TED EXPOSURE NO DATA.
Aspir	ATION HAZARD HAZARD STATEMENT: H304 MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS.
Other	INFORMATION NO DATA.

### **SECTION 12: ECOLOGICAL INFORMATION**

12.1	TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS.
Τοχιςιτγ	THE PRODUCT MUST NOT BE ALLOWED TO RUN INTO DRAINS OR WATERWAYS.
12.2 Persistence & degradability	CITRONELLOL (CAS: 106-22-9). BIODEGRADABILITY : NO DEGRADABILITY DATA IS AVAILABLE, THE SUBSTANCE IS CONSIDERED AS NOT DEGRADING QUICKLY.
12.3	CITRONELLOL (CAS: 106-22-9)
BIO- ACCUMULATIVE POTENTIAL	OCTANOL/WATER PARTITION COEFFICIENT : $3 \le \log \text{KOE} \le 4$ .
12.4 Mobility in soil	ΝΟ ΔΑΤΑ
12.5 Results of PBT & VPVB Assessment	NO DATA.
12.6 OTHER ADVERSE EFFECTS	NO DATA.
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	
UN NUMBER	ROAD: UN 3082 SEA: UN 3082
14.2 UN Shipping Name	AIR: UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. ((R)-P-MENTHA-1,8-DIENE). ADR/RID/ADN CLASS: 9 ADR/RID/ADN CLASS: 9 MISCELLANEOUS DANGEROUS SUBSTANCES AND ARTICLES. IMDG CLASS 9 ICAO CLASS/DIVISION 9 TRANSPORT LABELS
14.3 Transport hazard class(es)	MISCELLANEOUS DANGEROUS GOODS 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 / MARINE POLLUTANT.

	ADR/RID	Class	Code Pa	ckgr. Labe	el Ident	. LQ	Provis	s.	EQ	Cat.	Tunnel
		9	M6 III	." 9	90			35 375 60:		3	E
	IMDG	Class	2°Label	Pack gr.	LQ E	MS	Provis	5.	EQ		
		9	_	III U		F- <b>A,S</b> -F			E1		
					51		2113		•		
	IATA	Class	2°Label	Pack gr.	Passage	r Par	sager	Cargo	Cargo	note	EQ
		9	-	III	964		0 L	964	450 L	A97	E1
14.6		-			301		01	501	1001	A158	
SPECIAL PRECAUTIONS FOR USER										A197	
		9	_	ш	¥964	30	kg G	_	_	A97	E1
		1			1.004	50	м <u>6</u> ст			A158	LI
										A197	
										A197	
	Notoubio	atta thi	rogulation	ifQ <=51/5			C 4107				
			-				-			ID C	
				t 2.7 of the C							
	For excep	ted quar	ntities, see p	art 2.6 of th	e OACI/IA	I A and c	hapter .	3.5 of the	ADK and	IMDG.	
14.7 TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL73/78 & THE IBC CODE.	NO DAT	Α.									
SECTION 15: REGULATORY INFORMATION											
SECTION 15: REGULATORY INFORMATION											
PRODUCT SPECIFIC SAFETY, HEALTH & ENVIRONMENTAL REGULATIONS & LEGISLATION											
	REGULAT		C) NO 190	07/2006	OF THE E	UROPEA	n Pari	LIAMENT A	ND OF T	THE COL	INCIL OF 18 <sup>™</sup>
	DECEMBER 2006. CONCERNING THE REGISTRATION, EVALUATION, AUTHORIZATION & RESTRICTION OF										
EU DIRECTIVES	CHEMICALS (REACH), ESTABLISHING A EUROPEAN CHEMICALS AGENCY, AMENDING DIRECTIVE 1999/45/EC and repealing council regulation (EEC) No793/93 & commission										
		-									SION DMMISSION
			· .	· · · ·							
	DIRECTIVE 91/155/ECC, 93/67/ECC, 93/105/EEC & 2000/21/EC (INCLUDING AMENDMENTS). THE CHEMICALS (HAZARD INFORMATION & PACKAGING FOR SUPPLY REGULATIONS 2009 (S.I.2009										
STATUTORY INSTRUMENTS	No 716										
Approved Code of Practice	CLASSIFICATION & LABELLING OF SUBSTANCES & PREPARATIONS DANGEROUS FOR SUPPLY. SAFETY DATA									PLY. SAFETY DATA	
	SHEETS FOR SUBSTANCES & PREPARATIONS. WORKPLACE EXPOSURE LIMITS EH40. CHIP FOR EVERYONE HSG 108.										
Guidance Notes											
15.2 Chemical Safety Assessment				$\sqrt{2006}$		HIS IS A	NON-F	IAZARDO	JS MATE	RIAL AC	CORDING TO
	ARTICLE		LACH 19	07/2000	•						

**SECTION 16: OTHER INFORMATION** 

Hazard and/ or Precautionary Statements in full	H226 FLAMMABLE LIQUID AND VAPOUR. H304 MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS. H315 CAUSES SKIN IRRITATION. H317 MAY CAUSES AN ALLERGIC SKIN REACTION. H318 CAUSES SERIOUS EYE DAMAGE. H319 CAUSES SERIOUS EYE IRRITATION. H400 VERY TOXIC TO AQUATIC LIFE.
	H410 VERY TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS. H411 TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS. H412 HARMFUL 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 <sup>™</sup> April 2018	Data Launch

### **SPECIFICATION SHEET**

Product Name: Neroli Tunisia Essential Oil
Product Inci: Citrus Aurantium Flower
PRODUCT CODE: OENEROTUNI
Cas Number: 8016-38-4 / 72968-50-4
EINECS NUMBER: 277-143-2
MANUFACTURING METHOD: STEAM DISTILLATION
Shelf Life / Best Before: 24 months

ANALYTICAL DETAILS	RANGE
Appearance	LIQUID
COLOUR	Yellow
Odour	CHARACTERISTIC, FLORAL & FRESH
Specific Gravity @ 20°C	0.866 – 0.880
Refractive Index @ 20°C	1.468 – 1.474
OPTICAL ROTATION (°C)	+1.0 то +11.5

STORAGE CONDITIONS

STORE IN A COOL DRY PLACE AWAY FROM HEAT & SUNLIGHT

DOCUMENTATION REVIEW DATE:

24<sup>th</sup> May 2018