

CERTIFICATE OF ANALYSIS

PRODUCT NAME: NEROLI TUNISIAN NATURAL, ESSENTIAL OIL

BATCH NUMBER: 4365513 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: JULY 2022

ANALYTICAL DETAILS	RANGE	Results
Appearance	LIQUID	-
Colour	Yellow	-
Odour	CHARACTERISTIC, FLORAL & FRESH	-
Specific Gravity @ 20°C	0.866 - 0.880	0.873
Refractive Index @ 20°C	1.468 - 1.474	1.469
OPTICAL ROTATION (°C)	+1.0 то +11.5	+1.0

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



Allergen Declaration Neroli Tunisia

PRODUCT NAME:	leroli, Essential Oil			
INCI:	itrus Aurantium Flower			
	COSMETIC ALLERGENS			
The Fo	lowing 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	118-58-1	0.00	
75	CINNAMAL	104-55-2	0.00	
76		91-64-5	0.00	
78	COUMARIN	91-64-5 106-24-1	3.50	
	GERANIOL	106-24-1 31906-04-4	3.50	
79	HYDROXY- METHYLPENTYLCYCLOHEXENECARBOXALDEHYDE			
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	
	FOOD ALLERGENS			
e following is from the commisio	n directive 2007/68/EC of 27th November 2007 amending Annex Illa to Directive 200/13/EC of the European Parli	ament & Council with regards to specific food ing	redients.	
inex 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

Citrus Aurantium Flower Harvested Neroli flower from Tunisia	Steam Dist Heat Excl	100 illation	8016-38-4 / 7	72968-50-4
	Ļ	illation		
	Heat Excl			
		hange		
	• Condensed	Material		
	ţ			Water
L	Essentia	l Oil		
Ľ	Filtrati	on		
	ļ	,		
	Quality Contr specifica			
Г	Packaging &	Labelling		Delivery to Clie

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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^{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
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: 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

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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	NEROLI TUNISIA, ESSENTIAL OIL				
BIOLOGICAL DEFINITION	A NATURAL BLEND OF THE VOLATILE OIL OBTAINED BY STEAM DISTILLATION OF THE FRAGRANT WHITE BLOSSOMS OF THE BITTER ORANGE TREE CITRUS AURANTIUM L. SUBSP. AMARA ENGL.				
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	SALES@MADARCORPO	SALES@MADARCORPORATION.CO.UK			
1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DAT	A SHEET				
EMERGENCY CONTACTS	01425 655555 DU	IRING OFFICE H	OURS		



SECTION 2: HAZARDS IDENTIFICATION

.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 ABEL 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
	Section 16 (Other Information): Risk & Safety phrases in full.
2.3 Dther 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.

SECTION 3: COMPOSITION OF INGREDIENTS

	Neur
3.1	NONE.
SUBSTANCES	
	< 39.6% LINALOOL CAS-NO.: 78-70-6 EC NO.: 201-134-4
3.2	Classification (EC 1272/2008) Acute Tox. 5 - H303, Skin Irrit. 2 - H315, Aquatic Acute 3 - H402
MIXTURES	
	10.0 – 25.0% LINALYL ACETATE CAS: 115-95-7, EC: 204-116-4



	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
	2.5 - 10.0% TERPINYL ACETATE CAS: 80-26-2, EC: 201-265-7
	CLASSIFICATION (EC 1272/2008) AQUATIC CHRONIC 2, H411
	2.5 – 10.0% Alpha-Pinene X CAS: 80-56-8, EC: 201-291-9
	CLASSIFICATION (EC 1272/2008) ASP. TOX. 1, H304, FLAM. LIG. 3, H226, SKIN IRRIT. 2, H315, SKIN SENS. 1, H317
	< 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
	2.5 – 10.0% Geranyl Acetate CAS-No.: 105-87-3 EC No.: 203-341-5
	2.5 - 10.0% Geranyl Acetate CAS-NO.: 103-87-3 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
	2.5 - 10.0% TERPINEOL CAS: 8000-41-7, EINECS: 232-268-1
	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
	CROSING THOR (LC + 2/2/2000) ETE IKKI, 2/10+7, 0KIN IKKI, 2/10+0
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SECTION 4: FIRST A	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	FOAM, CO2, DRY CHEMICAL POWDER.			
EXTINGUISHING MATERIAL	I OAM, COZ, DRT CHEMICAL FOVVDER.			
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	Ensure adequate ventilation of the working area, evacuate personnel to safe area, wear suitable protective
PERSONAL PRECAUTIONS	EQUIPMENT. NO SMOKING, SPARKS, FLAMES OR OTHER SOURCES OF IGNITION NEAR SPILLAGE. AVOID CONTACT WITH SKIN,
FERSONAL PRECAUTIONS	EYES AND CLOTHING. AVOID INHALATION.
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	REMOVE IGNITION SOURCES. PROVIDE ADEQUATE VENTILATION. AVOID EXCESSIVE INHALATION OF VAPOURS. CONTAIN
METHODS & MATERIAL FOR CONTAINMENT AND CLEANING	SPILLAGE IMMEDIATELY BY USE OF SAND OR INERT POWDER. DISPOSE OF ACCORDING TO LOCAL REGULATIONS. COVER WITH
UP	AN INERT, INORGANIC, NON-COMBUSTIBLE ABSORBENT MATERIAL (E.G DRY-LIME, SAND, SODA ASH).
6.4	REFER & CONSIDER SECTION 12.
REFERENCES TO OTHER SECTIONS	KEPEK & CONSIDEK 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						

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8.2 EXPOSURE CONTROLS 80-56-8 20 ppm



	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	ÁVOID 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 то 1.474 @ 20°С
Solubility in water @ 20 °C	INSOLUBLE IN WATER
9.2 Other Information	NO DATA.
SECTION 10: STABILITY & REACTIVITY	
10.1 Reactivity	NO DATA.
10.2 Chemical stability	Stable under suggested storage conditions (<15 $^{\circ}$ C).
10.3 Possibility of hazardous reactions	NONE UNDER NORMAL PROCESSING.
10.4 CONDITIONS TO AVOID	Storage at high temperatures. Do not store above 15° C. Avoid heat, flames and other sources of ignition.
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	
Αсυτε Τοχιςιτγ	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) ORAL ROUTE : LD50 = 3000 MG/KG.
Skin irritation	MAY CAUSE AN ALLERGIC REACTION BY SKIN CONTACT. CORROSIVITY : NO OBSERVED EFFECT.
Eye damage or irritation	MAY HAVE IRREVERSIBLE EFFECTS ON THE EYES, SUCH AS TISSUE DAMAGE IN THE EYE, OR SERIOUS PHYSICAL DECAY OF SIGHT, WHICH IS NOT FULLY REVERSIBLE BY THE END OF OBSERVATION AT 21 DAYS. SERIOUS EYE DAMAGE IS TYPIFIED BY THE DESTRUCTION OF CORNEA, PERSISTENT CORNEAL OPACITY AND IRITIS.
RESPIRATORY OR SKIN SENSITIVITY	HAZARD STATEMENT: H317 MAY CAUSE AN ALLERGIC SKIN REACTION.
GERM CELL MUTAGENICITY	NO DATA.
CARCINOGENICITY	CAS 5989-27-5 : IARC GROUP 3 : THE AGENT IS NOT CLASSIFIABLE AS TO ITS CARCINOGENICITY TO HUMANS.
REPRODUCTIVE TOXICITY	NO DATA.
STOT – SINGLE EXPOSURE	NO DATA.
STOT – REPEATED EXPOSURE	NO DATA.
Aspiration Hazard	HAZARD STATEMENT: H304 MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS.
OTHER INFORMATION	NO DATA.

SECTION 12: ECOLOGICAL INFORMATION

2.1	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	NO DATA
12.5 Results of PBT & VPVB assessment	NO DATA.
12.6 Other adverse effects	NO DATA.



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 AIR: UN 3082
14.2 UN SHIPPING NAME 14.3 TRANSPORT HAZARD CLASS(ES)	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 MISCELLANEOUS 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	Dave	:kgr. Labe	al la	ent.	LQ	Prov	e	EQ	Cat.	Tunnel
	ADIQIND	9	M6	ra.	.кыр. Laba 9		0			15. 335 375 60		3	E
		,	NO		,		0	31	217.	55 57 5 00		5	L
	IMDG	Class	2°Lab	al	Dock or	LQ	EM	IC	Provi	c	EQ		
	IMDG		Z LaD	e	Pack gr.								
		9	-		Ш	5L	F-A	4,5-F	214 :	35 969	E1		
	1474	C 1	200		n 1					ç	~		50
	ΙΑΤΑ		2°Lab	ei	Pack gr.		ager		ssager	Cargo	Cargo	note	EQ
147		9	-		ш	964		45	UL	964	450 L	A97	E1
14.6 Special precautions for user												A158	
												A197	
		9	-		ш	¥96	1	30	kg G	-	-	A97	E1
												A158	
												A197	
	Not subje	ct to this	regula	tion i	fQ<=5 /:	5 kg (1/	ATA 4.4	4.4 - C	IS A197)			
	For limite	d quanti	ties, see	e part	t 2.7 of the (oaci/i	A⊤Aai	nd cha	apter 3.	4 of the A	DR and IN	IDG.	
	For excep	ted quar	ntities, s	æe pa	art 2.6 of th	ie OAC	I/IATA	and o	:hapter	3.5 of the	ADR and	IMDG.	
14.7 Transport in bulk according to Annex 11 of MARPOL73/78 & the IBC code.	NO DATA.												
SECTION 15: REGULATORY INFORMATION													
15.1 PRODUCT SPECIFIC SAFETY, HEALTH & ENVIRONMENTAL REGULATIONS & LEGISLATION													
LEOSEANON	REGULAT		C) NO	190	7/2006	OF TH	e Eur		N PAR			THE COL	INCIL OF 18 [™]
	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											
			-		-					-			
	1		- 1			•							G AMENDMENTS).
STATUTORY INSTRUMENTS	No 716		1. 17124	II'						JUI 1			
APPROVED CODE OF PRACTICE			& LAB	ellin	IG OF SUBS	STANC	ES &	PREP	ARATIC		EROUS F	OR SUP	PLY. SAFETY DATA
	SHEETS FOR SUBSTANCES & PREPARATIONS.												
GUIDANCE NOTES	WORKPI	ACE EXI	POSURI	E LIM	ITS EH40.	CHIP	FOR	EVER	YONE	HSG 108	3.		
15.2 Chemical Safety Assessment							S THIS	S IS A	NON-I	HAZARDO	US MATE	RIAL AC	CORDING TO
Chemical JAFEI I ASSESSMENI	ARTICLE	81 of R	EACH	190	07/2006).							

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 CAUSE 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 [™] April 2018	Data Launch

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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:

24TH MAY 2018

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