



## CERTIFICATE OF ANALYSIS

**PRODUCT NAME: MANDARIN (RED), ESSENTIAL OIL ORGANIC**

**BATCH NUMBER: 4388101**

PRODUCT INCI: CITRUS NOBILIS PEEL OIL

PRODUCT CODE: OCMANDRED

CAS NUMBER: 84929-38-4

EINECS NUMBER: 284-521-0

MANUFACTURING METHOD: EXPRESSED

BEST BEFORE FEBRUARY 2023

ANALYTICAL DETAILS	RANGE	RESULTS
APPEARANCE	LIQUID	-
COLOUR	DARK YELLOW - ORANGE	-
ODOUR	CHARACTERISTIC, CITRUS	-
SPECIFIC GRAVITY @ 20°C	0.841 – 0.852	0.8457
REFRACTIVE INDEX @ 20°C	1.469 – 1.479	1.4740
OPTICAL ROTATION (°C)	+72.0 TO +82.0	-
PEROXIDE VALUE (MMOL/L)	<20.0	10

### STORAGE CONDITIONS

STORE IN A COOL DRY PLACE AWAY FROM HEAT & SUNLIGHT

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## Allergen Declaration:

<b>PRODUCT NAME:</b> Mandarin (Red), Essential Oil Organic	
<b>INCI:</b> Citrus Nobilis Peel	
<b>COSMETIC ALLERGENS</b>	
<i>The Following is from the 7th amendment of the cosmetic directive of the European Union Annex III.</i>	
<b>Annex IIIa Reference:</b>	<b>CAS NUMBER: 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 0.00
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 0.00
78	GERANIOL 106-24-1 0.00
79	HYDROXY- METHYLPENTYL CYCLOHEXENECARBOXALDEHYDE 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 0.30
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 75.00
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>	
<i>The following is from the commission directive 2007/68/EC of 27th November 2007 amending Annex IIIa to Directive 2000/13/EC of the European Parliament &amp; Council with regards to specific food ingredients.</i>	
<b>Annex IIIa Reference:</b>	<b>PRESENT IN PRODUCT: CONTAMINATION PRESENCE: 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



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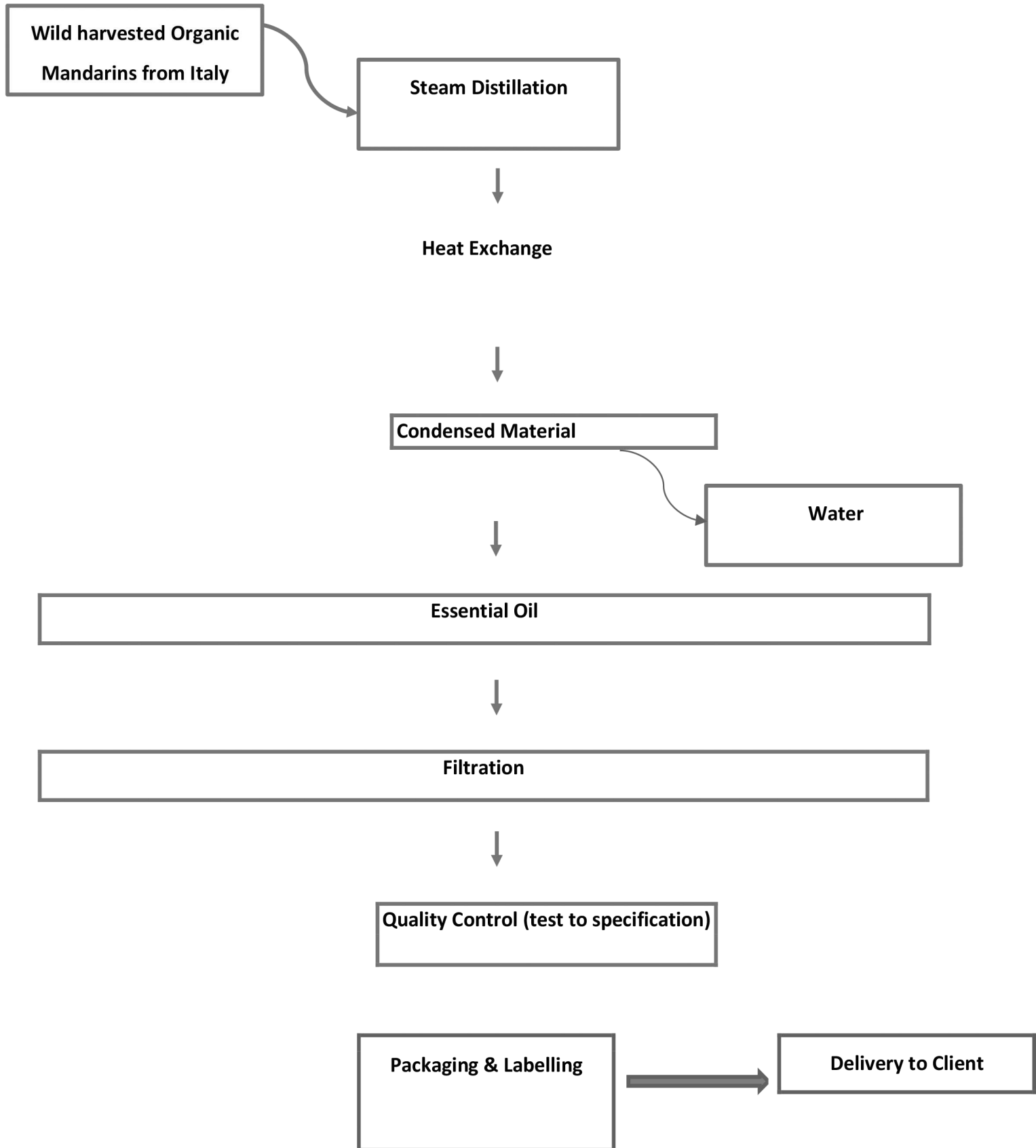
## Composition Statement & Manufacturing Flow Chart:

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

<b>Mandarin (Red), Essential Oil Organic</b>
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INCI Name	% Inclusion	CAS Number
Citrus Nobilis Peel	100	84929-38-4

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August **2018**

### **GMO STATEMENT**

We hereby state and certify that the Mandarin (Red), Essential Oil Organic sold by us is not derived/ produced from a raw material that has been genetically modified.

## IFRA STATEMENT

**PRODUCT NAME:** MANDARIN (RED), ESSENTIAL OIL ORGANIC

**PRODUCT INCI:** CITRUS NOBILIS PEEL

**PRODUCT CODE:** OCMANDRED

**CAS NUMBER:** 84929-38-4

**EINECS NUMBER:** 284-521-0

**MANUFACTURING METHOD:** EXPRESSED

**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<sup>TH</sup> AMENDMENT OF THE IFRA CODE OF PRACTICE:**

Restricted Component	Cas No:	% Level in Product	IFRA Standard
Limonene	5989-27-5	≤ 96.2	Specification Std
Linalool	78-70-6	≤ 0.95	Specification Std
Citronellol	106-22-9	≤ 0.03	Restriction Stds (QRA cat.)
Citral	5392-40-5	≤ 0.185	Restriction Stds (QRA cat.)
Geraniol	106-24-1	≤ 0.005	Restriction Stds (QRA cat.)
Methyl N-methylantranilate	85-91-6	≤ 0.06	Restriction Stds (non QRA)
IFRA CLASSES		% MAXIMUM USE LEVEL	
CLASS 1		21.62	
CLASS 2		27.03	
CLASS 3A		NOT RESTRICTED.	
CLASS 3B		NOT RESTRICTED.	
CLASS 3C		NOT RESTRICTED.	
CLASS 3D		NOT RESTRICTED.	
CLASS 4A		NOT RESTRICTED.	
CLASS 4B		NOT RESTRICTED.	
CLASS 4C		NOT RESTRICTED.	
CLASS 4D		NOT RESTRICTED.	
CLASS 5		NOT RESTRICTED.	
CLASS 6		NOT RESTRICTED.	

CLASS 7A	54.05
CLASS 7B	54.05
CLASS 8A	NOT RESTRICTED.
CLASS 8B	NOT RESTRICTED.
CLASS 9A	NOT RESTRICTED.
CLASS 9B	NOT RESTRICTED.
CLASS 9C	NOT RESTRICTED.
CLASS 10A	NOT RESTRICTED.
CLASS 10B	NOT RESTRICTED.
CLASS 11	NOT RESTRICTED.

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
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, tightens 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

<b>PRODUCT NAME</b>	MANDARIN RED, ESSENTIAL ORGANIC				
<b>BIOLOGICAL DEFINITION</b>	CITRUS NOBILIS PEEL OIL EXPRESSED IS AN ESSENTIAL OIL EXPRESSED FROM THE EPICARPS OF THE MANDARIN, CITRUS NOBILIS, RUTACEAE.				
<b>INCI NAME</b>	CITRUS NOBILIS PEEL OIL				
<b>SYNONYMS &amp; TRADE NAMES</b>	-				
<b>INTERNAL PRODUCT CODE</b>	K0279				
<b>CAS-No</b>	84929-38-4	<b>EC No.</b>	284-521-0	<b>EINECS No.</b>	284-521-0

#### 1.2

##### DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

<b>COMPANY ADDRESS</b>	OS\$5&RUSRUDWLRQ/LPLWHG 6DQGOHKHDWKLQGXYWULDO(VWDWH)RUGLQJEULGJH+DPSVKLUH633\$
<b>EMAIL</b>	sales@madarcorporation.co.uk

#### 1.3

##### DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

<b>EMERGENCY CONTACTS</b>	01 425 655555 during office hours
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### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1

##### CLASSIFICATION OF THE SUBSTANCE OR MIXTURE





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>	FLAM. LIQ. 3 – H226 ASP. TOX. 1 - H304 SKIN IRRIT 2 – H315 SKIN SENS. 1 – H317 AQUATIC CHRONIC 1 - H410

#### 2.2

##### LABEL ELEMENTS

LABEL IN ACCORDANCE WITH REGULATION (EC) No 1272/2008.

<b>GHS LABEL</b>	 GHS07	 GHS08	 GHS09	 GHS02
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<b>SIGNAL WORD</b>	DANGER.
<b>CONTAINS</b>	-
<b>HAZARDS STATEMENT</b>	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. H410 VERY TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS.
<b>PRECAUTIONARY STATEMENTS</b>	P210 KEEP AWAY FROM HEAT/SPARKS/OPEN FLAMES/HOT SURFACES. NO SMOKING. P241 USE EXPLOSION-PROOF ELECTRICAL / VENTILATING / LIGHTING EQUIPMENT. P262 DO NOT GET IN EYES, ON SKIN OR ON CLOTHING. P273 AVOID RELEASE TO THE ENVIRONMENT. P280 WEAR PROTECTIVE GLOVES/PROTECTIVE CLOTHING AND EYE/FACE PROTECTION. P301+310 IF SWALLOWED: IMMEDIATELY CALL A POISON CENTER OR DOCTOR/PHYSICIAN. P303+P361+P353 IF ON SKIN (OR HAIR): REMOVE/TAKE OFF IMMEDIATELY ALL CONTAMINATED CLOTHING. RINSE SKIN WITH WATER/SHOWER. P331 DO NOT INDUCE VOMITING. P405 STORE LOCKED UP. P501 DISPOSE OF CONTENTS/CONTAINER TO ...
<b>SUPPLEMENTARY PRECAUTIONARY STATEMENTS</b>	NONE.
SECTION 16 (OTHER INFORMATION): RISK & SAFETY PHRASES IN FULL.	
<b>2.3 OTHER HAZARDS</b>	
<b>ADVERSE PHYSIO-CHEMICAL PROPERTIES</b>	NO DATA
<b>ADVERSE EFFECTS ON HUMAN HEALTH</b>	NO DATA.
<b>PBT OR vPvB ACCORDING TO ANNEX XIII</b>	NO DATA
<b>SECTION 3: COMPOSITION OF INGREDIENTS</b>	
<b>3.2 MIXTURES</b>	<p>~<b>74.0% LIMONENE</b> CAS-No.: 5989-27-5 EC No.: 227-813-5 CLASSIFICATION (EC 1272/2008) FLAM. LIQ. 3 – H226, SKIN IRRIT 2 – H315 ASP TOX. 1 – H304, SKIN SENS. 1 – H317 AQUATIC ACUTE 1 – H400, AQUATIC CHRONIC 1 – H410</p> <p>~<b>18.0% Y-TERPINENE</b> CAS-No 99-85-4, EC 202-794-6 CLASSIFICATION (EC 1272/2008); FLAM. LIQ. 3 – H226, ASP TOX. 1 – H304;</p> <p>~<b>2.0% ALPHA-PINENE</b> CAS-No.: 80-56-8 EC No.: 201-291-9 CLASSIFICATION (EC 1272/2008) FLAM. LIQ. 3 - H226, SKIN SENS. 1 - H317, ASP. TOX. 1 - H304, AQUATIC ACUTE 1 -</p>
	<p>H400, AQUATIC CHRONIC 1 - H410</p> <p>~<b>2.0% MYRCENE (7-METHYL-3-METHYLENEOCTA-1,6-DIENE)</b> CAS-No.: 123-35-3 EC No.: 204-622-5 CLASSIFICATION (EC 1272/2008) FLAM. LIQ. 3 - H226, SKIN IRRIT. 2 - H315, EYE IRRIT. 2 - H319, ASP. TOX. 1 - H304</p>
<b>SECTION 4: FIRST AID MEASURES</b>	
<b>4.1 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.
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, CO <sub>2</sub> , DRY CHEMICAL POWDER.
5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE	BURNING PRODUCES IRRITATING, TOXIC AND OBNOXIOUS FUMES
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 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.
6.4 REFERENCES TO OTHER SECTIONS	REFER & CONSIDER SECTION 8. 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

NONE.

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

ORANGE TO DARK YELLOW

ODOUR

CHARACTERISTIC, CITRUS, MANDARIN

RELATIVE DENSITY

0.839 - 0.849 @ 25°C

FLASH POINT (°C)

49°C

REFRACTIVE INDEX @ 20 °C

1.469 - 1.479 @ 20°C

SOLUBILITY IN WATER @ 20 °C

INSOLUBLE IN WATER

9.2

OTHER INFORMATION

AUTO-IGNITION: 235°C

## SECTION 10: STABILITY & REACTIVITY

<b>10.1</b> <b>REACTIVITY</b>	NO HAZARDOUS REACTIONS IF STORED AND HANDLED AS PRESCRIBED / INDICATED.
<b>10.2</b> <b>CHEMICAL STABILITY</b>	STABLE UNDER SUGGESTED STORAGE CONDITIONS (<15°C).
<b>10.3</b> <b>POSSIBILITY OF HAZARDOUS REACTIONS</b>	NO.
<b>10.4</b> <b>CONDITIONS TO AVOID</b>	STORAGE AT HIGH TEMPERATURES. DO NOT STORE ABOVE 15°C.
<b>10.5</b> <b>INCOMPATIBLE MATERIALS</b>	STRONG OXIDISING SUBSTANCES.
<b>10.6</b> <b>HAZARDOUS DECOMPOSITION PRODUCTS</b>	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

<b>11.1</b> <b>TOXICOLOGICAL EFFECTS</b>	
<b>ACUTE TOXICITY</b>	LD50: 5 G/KG [SOURCE RIFM].
<b>SKIN IRRITATION</b>	HAZARD STATEMENT: H315 CAUSES SKIN IRRITATION.
<b>EYE DAMAGE OR IRRITATION</b>	NOT CLASSIFIED AS IRRITATING TO THE EYE [SOURCE RIFM].
<b>RESPIRATORY OR SKIN SENSITIVITY</b>	NO DATA
<b>GERM CELL MUTAGENICITY</b>	NO DATA
<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 (H304).
<b>OTHER INFORMATION</b>	NO DATA.

## SECTION 12: ECOLOGICAL INFORMATION

<b>12.1</b> <b>TOXICITY</b>	AQUATIC LIFE: HAZARD STATEMENT: H410 VERY TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS. ALGAE/AQUATIC PLANTS: EC50 65.9 MG/L (48H) CALCULATED VALUE [SOURCE RIFM]. FISH/AQUATIC INVERTEBRATES: NO ADDITIONAL DATA. PNECs: NO ADDITIONAL DATA.
<b>12.2</b> <b>PERSISTENCE &amp; DEGRADABILITY</b>	EXPECTED TO BE READILY BIODEGRADABLE.
<b>12.3</b> <b>BIO- ACCUMULATIVE POTENTIAL</b>	HAZARD STATEMENT: H410 VERY TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS.
<b>12.4</b> <b>MOBILITY IN SOIL</b>	NO DATA.
<b>12.5</b> <b>RESULTS OF PBT &amp; VPVB ASSESSMENT</b>	THIS SUBSTANCE IS NOT CLASSIFIED AS: PBT OR VPVB / CMR.

<b>12.6</b> <b>OTHER ADVERSE EFFECTS</b>	DO NOT ALLOW PRODUCT TO ENTER STREAMS, SEWERS OR OTHER WATERWAYS.
<b>SECTION 13: DISPOSAL INFORMATION</b>	
<b>13.1</b> <b>WASTE TREATMENT METHODS</b>	ALWAYS RECOVER SPILLED PRODUCT. DISCARD WASTE MATERIAL WITH AUTHORIZED WASTE MANAGEMENT SERVICES. ACT IN ACCORDANCE WITH LOCAL & NATIONAL WASTE REGULATIONS.

<b>SECTION 14: TRANSPORT INFORMATION</b>	
<b>14.1</b> <b>TRANSPORT INFORMATION</b>	
<b>UN NUMBER</b>	ROAD: 1169 RAIL: 1169 AIR: 1169
<b>14.2</b> <b>UN SHIPPING NAME</b>	EXTRACTS, AROMATIC, LIQUID
<b>14.3</b> <b>TRANSPORT HAZARD CLASS(ES)</b>	ADR/RID/ADN CLASS 3 ADR/RID/ADN CLASS 3 IMDG CLASS 3 ICAO CLASS/DIVISION 3  TRANSPORT LABELS 
<b>14.4</b> <b>PACKING GROUP</b>	ADR/RID/ADN PACKING GROUP III IMDG PACKING GROUP III ICAO PACKING GROUP III
<b>14.5</b> <b>ENVIROMENTAL HAZARDS</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE/MARINE POLLUTANT 



<b>14.6</b> SPECIAL PRECAUTIONS FOR USER	THIS PRODUCT CONTAINS CONSTITUENTS FLAMMABLES & DANGEROUS FOR THE ENVIRONMENT - IN CASE OF POURING OUT, MAKE SURE TO LABEL NEW PACKAGE ACCORDINGLY, REPRODUCING ORIGINAL LABEL WITH RELEVANT SYMBOLS.
<b>14.7</b> TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL73/78 & THE IBC CODE.	TARIFF NUMBER 3301192000.
<b>SECTION 15: REGULATORY INFORMATION</b>	
<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	-
<b>SECTION 16: OTHER INFORMATION</b>	
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. H410 VERY TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS.
<b>TRAINING INSTRUCTIONS: REFER TO POSSIBLE HAZARD BEFORE USE OF THIS PRODUCT.</b>	
<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

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## SPECIFICATION SHEET

**PRODUCT NAME: MANDARIN (RED), ESSENTIAL OIL ORGANIC**

PRODUCT INCI: CITRUS NOBILIS PEEL

PRODUCT CODE: OCMAND

CAS NUMBER: 84929-38-4

EINECS NUMBER: 284-521-0

MANUFACTURING METHOD: EXPRESSED

ANALYTICAL DETAILS	RANGE
APPEARANCE	LIQUID
COLOUR	DARK YELLOW - ORANGE
ODOUR	CHARACTERISTIC, CITRUS
SPECIFIC GRAVITY @ 20°C	0.841 – 0.852
REFRACTIVE INDEX @ 20°C	1.469 – 1.479
OPTICAL ROTATION (°C)	+72.0 TO +82.0
PEROXIDE VALUE (MMOL/L)	<20.0

### STORAGE CONDITIONS

STORE IN A COOL DRY PLACE AWAY FROM HEAT & SUNLIGHT

DOCUMENTATION REVIEW DATE:

**24<sup>TH</sup> MAY 2018**

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## **Vegetarian & Vegan Suitability Statement**

**PRODUCT NAME: Mandarin (Red), Essential Oil Organic**

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