

## **CERTIFICATE OF ANALYSIS**

PRODUCT NAME: MANDARIN (RED), ESSENTIAL OIL ORGANIC

**BATCH NUMBER: 4563101** 

PRODUCT INCI: CITRUS NOBILIS PEEL OIL

PRODUCT CODE: OCMANDRED CAS NUMBER: 84929-38-4 EINECS NUMBER: 284-521-0

MANUFACTURING METHOD: EXPRESSED BEST BEFORE 988: December &\$&7

ANALYTICAL DETAILS	Range	RESULTS
Appearance	LIQUID	-
Colour	PALE ORANGE - DARK ORANGE	-
Odour	Characteristic	-
Specific Gravity @ 20°C	0.835 – 0.855	0.847
Refractive Index @ 20°C	1.465 – 1.485	1.473
OPTICAL ROTATION (°C)	+80.0 TO +105.0	+97.90

#### **STORAGE CONDITIONS**

STORE IN A COOL DRY PLACE AWAY FROM HEAT & SUNLIGHT



# Allergen Declaration:

	Aandarin (Red), Essential Oil Organic Citrus Nobilis Peel			
iivei.	COSMETIC ALLERGENS			
The Fo	lowing is from the 7th amendment of the cosmetic directive of the European Union Annex iii.			
ex 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	0.00	
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	
76	CINNAMAL	104-55-2	0.00	
77	COUMARIN	91-64-5	0.00	
78	GERANIOL	106-24-1	0.00	
79	HYDROXY- METHYLPENTYLCYCLOHEXENECARBOXALDEHYDE	31906-04-4	0.00	
80	ANISE ALCOHOL	105-13-5	0.00	
81	BENZYL CINNAMATE	103-13-3	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	
	FOOD ALLERGENS			
ollowing is from the commisio	n directive 2007/68/EC of 27th November 2007 amending Annex Illa to Directive 200/13/EC of the European Parlic	ment & Council with regards to specific food ing	redients.	
x 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

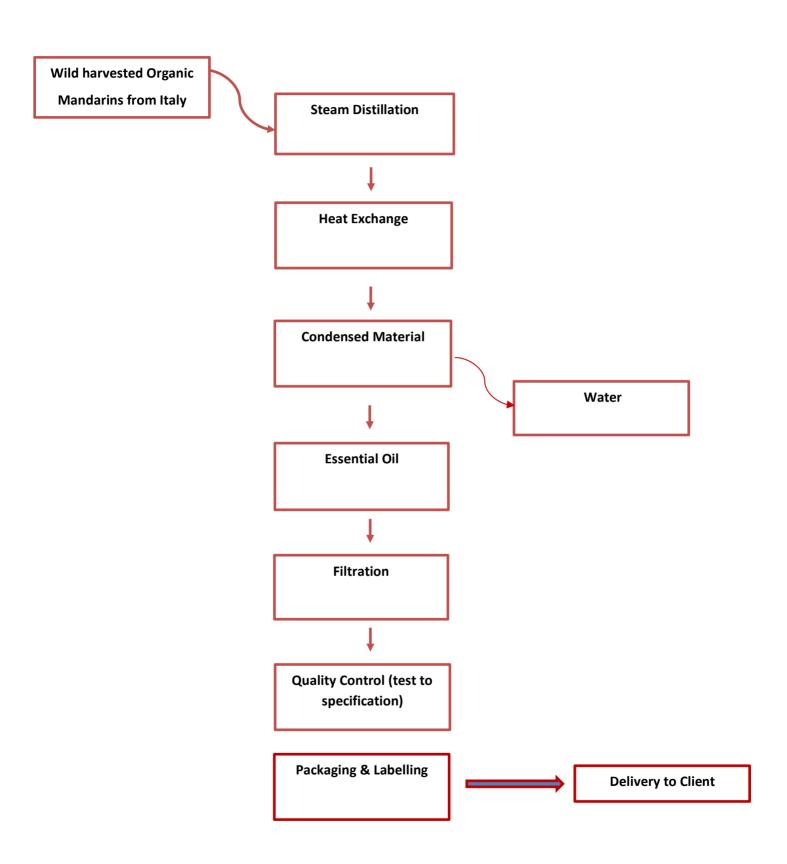


### Composition Statement & Manufacturing Flow Chart:

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

Mandarin (Red), Essential Oil Organic

INCI Name	% Inclusion	CAS Number
Citrus Nobilis Peel	100	84929-38-4





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-methylanthranilate	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, 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

The attached information is considered to be correct at the time the client received this information. Please be aware that detail can change and we encourage clients to update their records with MADAR regularly. The information is not and should not be considered a guarantee or warranty, or a part of our contractual or other legal obligations. The information is not to be disclosed to others, reproduced or transmitted in whole or in part without permission from MADAR. It is the responsibility of the client to ensure the safety of the final product containing this ingredient. Please carry out additional testing if necessary.



### **Material Safety Data Sheet**

**EU Regulation: 1907/2006** 

SECTION 1: IDENTIFICATION OF	THE SUBSTANCE	MIXTURE A	AND OF THE COMPANY/	UNDERTAKING	
1.1 PRODUCT IDENTIFICATION					
PRODUCT NAME	Mandarin Red, Essei	ntial Organic			
BIOLOGICAL DEFINITION	CITRUS NOBILIS PEEL C	OIL EXPRESSED I	S AN ESSENTIAL OIL EXPRESSED FRO	OM THE EPICARPS OF 1	THE MANDARIN, CITRUS NOBILIS, RUTACEAE.
INCI NAME	CITRUS NOBILIS PEEL OIL				
SYNONYMS & TRADE NAMES	-				
INTERNAL PRODUCT CODE	к0279				
CAS-No	84929-38-4	EC No.	284-521-0	EINECS No.	284-521-0
1.2 DETAILS OF THE SUPPLIER OF THE SAFETY DAT	A SHEET				
COMPANY ADDRESS	A 585F '7cfdcfUlfjcb'@a ]lYX % !&\$ 'GUlbX'Y\YUlh']bXi ghf]U' '9ghUlYz": cfX]b[ Vf]X[ Yz" <ua '%d5<="" dg\]fyz"gd*="" th=""></ua>				
EMAIL	sales@madarcorporation.co.uk				
1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET					
EMERGENCY CONTACTS	01425 655555 dui	ring office ho	urs		

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)	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.		
GHS LABEL	GHS07 GHS08 GHS09 GHS02		
Signal Word	DANGER.		
Contains	-		
Hazards Statement	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.		
PRECAUTIONARY STATEMENTS	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		
SUPPLEMENTARY PRECAUTIONARY STATEMENTS	NONE.		
	Section 16 (Other Information): Risk & Safety phrases in full.		
2.3 OTHER HAZARDS			
Adverse physio-chemical properties	NO DATA		
ADVERSE EFFECTS ON HUMAN HEALTH	NO DATA.		
PBT OR VPVB ACCORDING TO ANNEX XIII	NO DATA		
SECTION 3: COMPOSITION OF INGREDIEN	ITS		
	~74.0% LIMONENE CAS-NO.: 5989-27-5 EC NO.: 227-813-5CLASSIFICATION (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		
3.2 MIXTURES	~18.0% Y-TERPINENE CAS-NO 99-85-4, EC 202-794-6 CLASSIFICATION (EC 1272/2008); FLAM. LIQ. 3 – H226, ASP TOX. 1 –H304;		
	~2.0% Alpha-pinene 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 -		



H400, AQUATIC CHRONIC 1 - H410
~2.0% MYRCENE (7-METHYL-3-METHYLENEOCTA-1,6-DIENE) 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

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.		

FOAM, CO2, DRY CHEMICAL POWDER.
BURNING PRODUCES IRRITATING, TOXIC AND OBNOXIOUS FUMES
SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS:  WEAR POSITIVE-PRESSURE SELF-CONTAINED BREATHING APPARATUS (SCBA) AND APPROPRIATE PROTECTIVE CLOTHING.

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	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.

SPECIFIC END USE(S)

NO DATA.

#### **SECTION 8: EXPOSURE CONTROLS & PERSONAL PROTECTION**

**CONTROL PARAMETERS** 

NONE.



WEAR PROTECTIVE GLOVES/EYE PROTECTION/FACE PROTECTION.
WEAR PROTECTIVE GLOVES/EYE PROTECTION/FACE PROTECTION.
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.
GOOD PERSONAL HYGIENE PRACTICES ARE ALWAYS ADVISABLE, ESPECIALLY WHEN WORKING WITH CHEMICALS / OILS.
None.
WEAR PROTECTIVE CLOTHING TO REDUCE THE RISK OF SKIN AND EYE CONTACT.
AVOID INHALATION OF THE PRODUCT. AVOID CONTACT WITH SKIN AND EYES.
WEAR SUITABLE PROTECTION TO AVOID CONTACT WITH SKIN AND EYES. DO NOT INHALE VAPOURS.
Ensure area is well ventilated. Avoid vapour inhalation. Safety shower & Eye bath.
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
CECTION 10 CHARLIER O DEAGENCEN	

**SECTION 10: STABILITY & REACTIVITY** 



10.1 REACTIVITY	NO HAZARDOUS REACTIONS IF STORED AND HANDLED AS PRESCRIBED / INDICATED.
10.2 CHEMICAL STABILITY	Stable under suggested storage conditions (<15°C).
10.3 POSSIBILITY OF HAZARDOUS REACTIONS	No.
10.4 CONDITIONS TO AVOID	Storage at high temperatures. Do not store above 15°C.
10.5 INCOMPATIBLE MATERIALS	Strong oxidishing substances.
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	
SECTION 11. TOXICOLOGICAL INFORMATION	
11.1 TOXICOLOGICAL EFFECTS	
ACUTE TOXICITY	LD50: 5 G/KG [SOURCE RIFM].
SKIN IRRITATION	HAZARD STATEMENT: H315 CAUSES SKIN IRRITATION.
EYE DAMAGE OR IRRITATION	NOT CLASSIFIED AS IRRITATING TO THE EYE [SOURCE RIFM].
RESPIRATORY OR SKIN SENSITIVITY	NO DATA
GERM CELL MUTAGENICITY	NO DATA
CARCINOGENICITY	NOT APPLICABLE.
REPRODUCTIVE TOXICITY	NOT APPLICABLE.
STOT – SINGLE EXPOSURE	NOT APPLICABLE.
STOT — REPEATED EXPOSURE	NOT APPLICABLE.
ASPIRATION HAZARD	MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS (H304).
OTHER INFORMATION	NO DATA.
SECTION 12: ECOLOGICAL INFORMATION	AQUATIC LIFE: HAZARD STATEMENT: H410 VERY TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS.
12.1 Toxicity	AUDATIC LIFE: HAZARD STATEMENT: THE TO 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.
12.2 PERSISTENCE & DEGRADABILITY	Experience of the property blooming the prop
12.3	EXPECTED TO BE READILY BIODEGRADABLE.  HAZARD STATEMENT: H410 VERY TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS.
BIO- ACCUMULATIVE POTENTIAL	MAZAKU STATEMENT: 114 TO YEKY TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS.
12.4 MOBILITY IN SOIL	NO DATA.
12.5 RESULTS OF PBT & VPVB ASSESSMENT	THIS SUBSTANCE IS NOT CLASSIFIED AS: PBT OR VPVB / CMR.
12.6 OTHER ADVERSE EFFECTS	DO NOT ALLOW PRODUCT TO ENTER STREAMS, SEWERS OR OTHER WATERWAYS.
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: 1169 RAIL: 1169 AIR: 1169
14.2 UN SHIPPING NAME	Extracts, Aromatic, Liquid
14.3 TRANSPORT HAZARD CLASS(ES)	ADR/RID/ADN CLASS 3 ADR/RID/ADN CLASS 3 IMDG CLASS 3 ICAO CLASS/DIVISION 3  TRANSPORT LABELS  FLAMMABLE 3
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	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.
14.7 TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL73/78 & THE IBC CODE.	TARIFF NUMBER 3301192000.
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 $18^{\text{TH}}$ DECEMBER 2006. CONCERNING THE REGISTRATION, EVALUATION, AUTHORIZATION & RESTRICTION OF



STATUTORY INSTRUMENTS	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). 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. 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.
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>TH</sup> APRIL 2018	Data Launch



## **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	PALE ORANGE - DARK ORANGE
Odour	C <sub>HARACTERISTIC</sub> ,
SPECIFIC GRAVITY @ 20°C	0.835 – 0.855
REFRACTIVE INDEX @ 20°C	1.465 – 1.485
OPTICAL ROTATION (°C)	+80.0 TO +105.0

#### **STORAGE CONDITIONS**

STORE IN A COOL DRY PLACE AWAY FROM HEAT & SUNLIGHT

#### **DOCUMENTATION REVIEW DATE:**

24<sup>TH</sup> M<sub>AY</sub> 2027



## **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.