

CERTIFICATE OF ANALYSIS

PRODUCT NAME: MANDARIN (RED), ESSENTIAL OIL ORGANIC

BATCH NUMBER: 4518001

PRODUCT INCI: CITRUS NOBILIS PEEL OIL

PRODUCT CODE: OCMANDRED

CAS NUMBER: 84929-38-4 EINECS NUMBER: 284-521-0

MANUFACTURING METHOD: EXPRESSED

BEST BEFORE September 2026

ANALYTICAL DETAILS	Range	RESULTS
Appearance	LIQUID	-
COLOUR	Dark Yellow - Orange	-
Odour	CHARACTERISTIC, CITRUS	-
Specific Gravity @ 20□C	0.835 - 0.855	0.846
Refractive Index @ 20□C	1.465 – 1.485	1.473
Optical Rotation (\Box C)	+80.0 TO +105.0	+90.5

STORAGE CONDITIONS

STORE IN A COOL DRY PLACE AWAY FROM HEAT & SUNLIGHT

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.



Allergen Declaration:

RODUCT NAME: INCI:	Mandarin (Red), Essential Oil Organic Citrus Nobilis Peel			
The	COSMETIC ALLERGENS Following is from the 7th amendment of the cosmetic directive of the European Union Annex III.			
nex Illa Reference:		CAS NUMBER:	TOTAL ALLERGEN INCLUSION (%):	
67	AMYL CINNAMAL	122-40-7	0.00	
68	BENZYL ALCOHOL	100-51-6	0.00	
69	CINNAMYL ALCOHOL	104-54-1	0.00	
70	CITRAL	5392-40-5	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	103-41-3	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	
	FOOD ALLERGENS			
e following is from the commi	ision directive 2007/68/EC of 27th November 2007 amending Annex Illa to Directive 200/13/EC of the European Porli	ament & Council with regards to specific food ing	predients.	
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



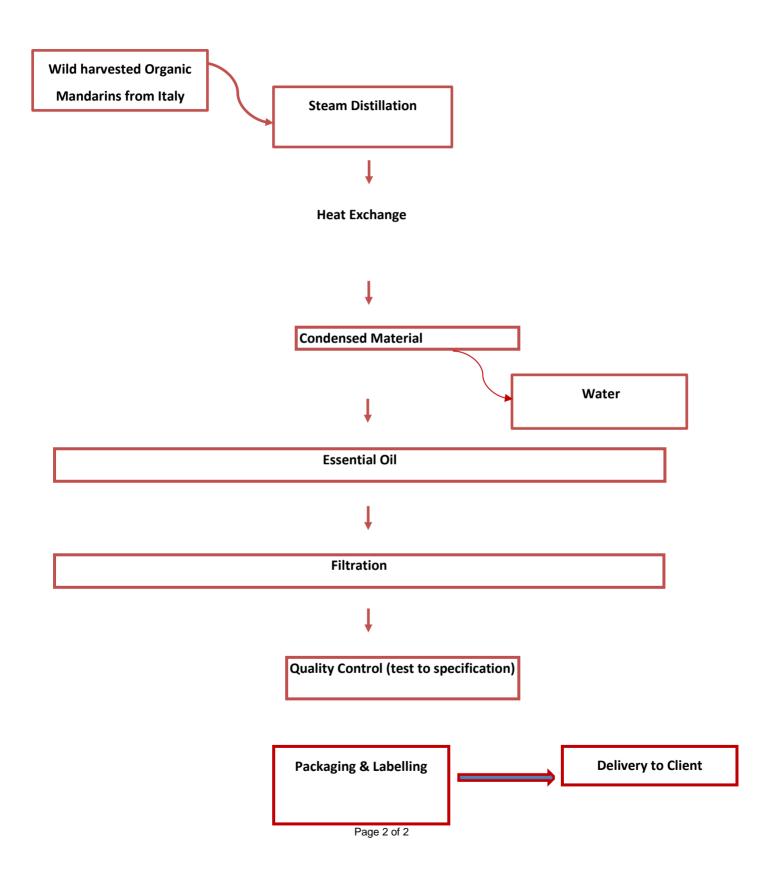
Page 1 of 1 Composition Statement & Manufacturing Flow Chart:

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

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IFRA STATEMENT

PRODUCT NAME: MANDARIN (RED), ESSENTIAL OIL ORGANIC

PRODUCT INCI: CITRUS NOBILIS PEEL OIL EXPRESSED

WE CERTIFY THAT THE ABOVE-MENTIONED MATERIAL CONFORMS TO THE IFRA 49 CODE OF PRACTICE AND CONTAINS THE FOLLOWING RESTRICTED COMPONENTS THAT ARE LISTED IN THE 49^{TH} AMENDMENT OF THE IFRA CODE OF PRACTICE:

Restricted Component	Cas No:	% Level in Product	IFRA Standard
Limonene	5989-27-5	≤ 97.000	Specification
Linalool	78-70-6	≤ 1.000	Specification
Nootkatone	4674-50-4	≤ 0.040	Specification
Geraniol	106-24-1	≤ 0.040	Restriction
Citral	5392-40-5	≤ 0.185	Restriction
Citronellal	106-23-0	≤ 0.040	Restriction
Citronellol	106-22-9	≤ 0.040	Restriction
Perilla aldehyde	2111-75-3	≤ 0.040	Restriction

Additional comments:

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

Nootkatone used as a fragrance ingredient should be at least 98% pure, with a melting point of at least 32°C. Lower purity grades may not be used as a fragrance ingredient.

IFRA Category	% Maximum Use Level
IFRA Category 1	59.46
IFRA Category 2	17.30
IFRA Category 3	54.05
IFRA Category 4	Not restricted
IFRA Category 5A	81.08
IFRA Category 5B	81.08
IFRA Category 5C	81.08
IFRA Category 5D	27.57
IFRA Category 6	Not restricted
IFRA Category 7A	Not restricted
IFRA Category 7B	Not restricted
IFRA Category 8	27.57
IFRA Category 9	Not restricted
IFRA Category 10A	Not restricted
IFRA Category 10B	Not restricted
IFRA Category 11A	27.57
IFRA Category 11B	27.57
IFRA Category 12	Not restricted

IFRA Category	Product Type	Flavour Use	Phototoxicity
Category 1	Lip Products of all types (solid and liquid lipsticks, balms, clear or coloured, etc.). Children's toys.	Yes	Applicable (leave-on products)
Category 2	Deodorant and antiperspirant products of all types including any product with intended or reasonably foreseeable use on the axillae or labelled as such (spray, stick, roll-on, under-arm, deo-cologne, etc.). Body sprays (including body mist)	No	Applicable (leave-on products)
Category 3	Eye products of all types (eye shadow, mascara, eyeliner, eye make-up, eye masks, eye pillows, etc.) including eye care and moisturizer Facial make up and foundation. Make-up remover for face and eyes. Nose pore strips. Wipes or refreshing tissues for face, neck, hands, body. Body and face paint (for children and adults). Facial masks for face and around the eyes	No	Applicable (leave-on products)
Category 4	Hydro alcoholic and non-hydro alcoholic fine fragrance of all types (Eau de Toilette, Parfum, Cologne, solid perfume, fragrancing cream, aftershaves of all types, etc.). Fragranced bracelets. Ingredients of perfume kits and fragrance mixtures for cosmetic kits. Scent pads, foil packs. Scent strips for hydro alcoholic products	No	Applicable (leave-on products)
Category 5A	Body creams, oils, lotions of all types. Foot care products (creams and powders). Insect repellent (intended to be applied to the skin). All powders and talc (excluding baby powders and talc).	No	Applicable (leave-on products)
Category 5B	Facial toner. Facial moisturizers and creams	No	Applicable (leave-on products)
Category 5C	(women facial creams) Hand cream. Nail care products including cuticle creams, etc. Hand sanitizers	No	Applicable (leave-on products)
Category 5D	Baby cream/lotion, baby oil, baby powders and talc.	No	Applicable (leave-on products)
Category 6	Toothpaste. Mouthwash, including breath sprays. Toothpowder, strips, mouthwash tablets	Yes	Applicable (leave-on products)
Category 7A	Hair permanent or other hair chemical treatments (rinse-off) (e.g. relaxers), including rinse-off hair dyes	No	Applicable (leave-on products)
Category 7B	Hair sprays of all types (pumps, aerosol sprays, etc.). Hair styling aids non-sprays (mousse, gels, leave- on conditioners). Hair permanent or other hair chemical treatments (leave-on) (e.g. relaxers), including leave-on hair dyes. Shampoo - Dry (waterless shampoo). Hair deodorizer	No	Applicable (leave-on products)
Category 8	Intimate wipes. Tampons. Baby wipes. Toilet paper (wet).	No	Applicable (leave-on products)
Category 9	Bar soap. Shampoo of all type. Cleanser for face (rinse-off).	NO	Applicable (rinse-off products)

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



Material Safety Data Sheet

EU Regulation: 1907/2006

SECTION 1: IDENTIFICATION OF	THE SUBSTANCE	/MIXTURE	AND OF THE COMPANY/	UNDERTAKING	
1.1 PRODUCT IDENTIFICATION					
PRODUCT NAME	Mandarin (Red), Ess	SENTIAL OIL OF	RGANIC		
BIOLOGICAL DEFINITION	CITRUS NOBILIS PEEL	CITRUS NOBILIS PEEL OIL EXPRESSED IS AN ESSENTIAL OIL EXPRESSED FROM THE EPICARPS OF THE MANDARIN, CITRUS NOBILIS, RUTACEAE.			
INCI NAME	CITRUS NOBILIS PEEL	OIL EXPRESSED			
SYNONYMS & TRADE NAMES	-				
INTERNAL PRODUCT CODE					
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	Madar Corporation 19-20 Sandleheat		state. Fordingbridge, SP6 1PA		
EMAIL	technical@madarcorpo				
1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DAT	A SHEET	·			
EMERGENCY CONTACTS	01425 655 555				

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)	THE FULL TEXT FOR ALL HAZARD STATEMENTS DISPLAYED IN SECTION 16.
CLASSIFICATION (EU1272/2008)	PHYSICAL HAZARDS: FLAM LIQ. 3 H226 HEALTH HAZARDS: ASP. TOX. 1 H304, SKIN IRRIT. 2 H315, SKIN SENS. 1 H317 ENVIRONMENTAL HAZARDS: AQUATIC ACUTE 1 H400, 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	D-LIMONENE, MYRCENE
HAZARDS STATEMENT	H226: Flammable liquid and vapour. H315: Causes skin irritation. H317: May cause an allergic skin reaction. H304: May be fatal if swallowed and enters airways. H410: Very toxic to aquatic life with long lasting effects.
Precautionary Statements	P210: KEEP AWAY FROM HEAT, HOT SURFACES, SPARKS, OPEN FLAMES AND OTHER IGNITION SOURCES. NO SMOKING. P241: USE EXPLOSION-PROOF ELECTRICAL/VENTILATING/LIGHTING EQUIPMENT. P261: AVOID BREATHING MIST/VAPOURS/SPRAY. P273: AVOID RELEASE TO THE ENVIRONMENT. P280: WEAR PROTECTIVE GLOVES/PROTECTIVE CLOTHING/EYE PROTECTION/FACE PROTECTION. P301+P310: IF SWALLOWED: IMMEDIATELY CALL A POISON CENTER/DOCTOR. P303+P361+P353: IF ON SKIN (OR HAIR): TAKE OFF IMMEDIATELY ALL CONTAMINATED CLOTHING. RINSE SKIN WITH WATER/SHOWER. P331: DO NOT INDUCE VOMITING. P501: DISPOSE OF CONTENTS/CONTAINER IN ACCORDANCE WITH LOCAL/REGIONAL/NATIONAL/INTERNATIONAL REGULATIONS.
SUPPLEMENTARY PRECAUTIONARY STATEMENTS	NONE.
2.3	SECTION 16 (OTHER INFORMATION): RISK & SAFETY PHRASES IN FULL.
OTHER HAZARDS	
ADVERSE PHYSIO-CHEMICAL PROPERTIES	NO APPLICABLE.
Adverse effects on human health	NO ADDITIONAL DATA AVAILABLE.
PBT OR VPVB ACCORDING TO ANNEX XIII	CAN CAUSE DRY SKIN, ALLERGIC CONTACT DERMATITIS.
SECTION 3: COMPOSITION OF INGREDIEN	ITS
	≤ 97.0% D-LIMONENE CAS No: 5989-27-5; EC No: 227-813-5 CLASSIFICATION (EC 1272/2008) FLAM. LIQ. 3, H226; ASP. TOX. 1, H304; SKIN IRRIT. 2, H315; SKIN SENS.1, H317; AQUATIC ACUTE 1, H400; AQUATIC CHRONIC 1, H410;
3.2 MIXTURES	≤ 2.5% 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; ASP. TOX. 1, H304, SKIN IRRIT. 2, H315; EYE IRRIT. 2, H319; AQUATIC ACUTE 1, H400; AQUATIC CHRONIC 1 H410
	≤ 3.0% GAMMA- TERPINENE CAS NO: 99-85-4; EC NO: 202-794-6 CLASSIFICATION (EC 1272/2008) FLAM. LIQ. 3, H226; ASP. TOX. 1, H304



≤ 3.0% ALPHA-PINENE CAS NO: 80-56-8; EC NO: 201-291-9
CLASSIFICATION (EC 1272/2008) FLAM. LIQ. 3, H226; ACUTE TOX. 4, H302; ASP. TOX. 1, H304; SKIN IRRIT. 2, H315;
SKIN SENS.1, H317; AQUATIC ACUTE 1, H400; AQUATIC CHRONIC 1, H410
≤ 1.0% BETA-PINENE CAS NO:127-91-3; EC NO: 204-872-5
CLASSIFICATION (EC 1272/2008) FLAM. LIQ. 3, H226; ASP. TOX. 1, H304; SKIN IRRIT. 2, H315; SKIN SENS.1, H317;
AQUATIC ACUTE 1, H400; AQUATIC CHRONIC 1, H410
≤ 1.0% LINALOOL CAS NO: 78-70-6; EC NO: 201-134-4
CLASSIFICATION (EC 1272/2008) SKIN IRRIT. 2, H315; SKIN SENS.1, H317; EYE IRRIT. 2, H319
≤ 0.185% CITRAL CAS No: 5392-40-5; EC No: 226-394-6
CLASSIFICATION (EC 1272/2008) SKIN IRRIT. 2, H315; SKIN SENS.1, H317

SECTION 4: FIRST AID MEASURES	
4.1	
DESCRIPTION OF FIRST AID MEASURES	
GENERAL INFORMATION	ALWAYS REMOVE CONTAMINATED CLOTHING IMMEDIATELY.
INHALATION	EVACUATE PERSON TO UNCONTAMINATED AREA. BREATHE FRESH AIR. IF BREATHING DIFFICULTIES PERSIST, CONSULT A DOCTOR. IF
INHALATION	UNCONSCIOUS, PLACE THE PERSON IN RECOVERY POSITION AND CALL A DOCTOR.
	RINSE MOUTH THOROUGHLY WITH WATER. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. DO NOT INDUCE
1	VOMITING. CONSULT A DOCTOR. IF VOMITING OCCURS, KEEP HEAD DOWN TO PREVENT THE PASSAGE OF VOMIT INTO THE LUNGS.
Ingestion	IN CASE OF PERSISTENT OR WORSENING SYMPTOMS CONSULT A DOCTOR. IF UNCONSCIOUS, PLACE THE PERSON IN RECOVERY
	POSITION (SLP) AND CALL A DOCTOR.
	WASH THE CONTAMINATED SKIN WITH SOAP AND WATER, REMOVE CONTAMINATED CLOTHING AND SHOES, WASH THOROUGHLY
SKIN CONTACT	WITH WATER. BEFORE REMOVING CONTAMINATED CLOTHING WEAR GLOVES.
	RINSE IMMEDIATELY WITH CLEAN WATER OR ANY SOLUTION PROVIDED FOR THIS PURPOSE FOR 1.5 MINUTES HOLDING THE EYE
EYE CONTACT	OPEN, CHECK IF THE VICTIM IS WEARING CONTACT LENSES AND REMOVE IF POSSIBLE.
	CONSULT OPHTHALMOLOGIST IMMEDIATELY.
4.2	
MOST IMPORTANT SYMPTOMS & EFFECTS (ACUTE &	NO ADDITIONAL DATA AVAILABLE.
DELAYED)	1.5
4.3	
INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION OR	NO ADDITIONAL DAT AAVAILABLE.
SPECIAL TREATMENT REQUIRED	TO ABBITOTORE BATTAUTH COLOR

5.1	Foly Co2 Day Circuicy Powers
EXTINGUISHING MATERIAL	FOAM, CO2, DRY CHEMICAL POWDER.
5.2	IN CASE OF FIRE, THE FOLLOWING CAN BE RELEASED:
SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR	CARBON MONOXIDE (CO)
MIXTURE	CARBON DIOXIDE (CO2)
	SMOKE AND SOOT
	TO PREVENT FIRE SPREADING; DO NOT USE WATER WITH FULL JET.
5.3	COOL NEARBY CONTAINERS WITH WATER SPRAY.
ADVICE FOR FIRE-FIGHTERS	COLLECT CONTAMINATED FIRE FIGHTING WATER SEPARATELY. IT MUST NOT ENTER THE SEWAGE SYSTEM. DISPOSE OF FIRE
	DEBRIS AND CONTAMINATED FIRE FIGHTING WATER IN ACCORDANCE WITH OFFICIAL REGULATIONS.

SECTION 6: ACCIDENTAL RELEA	ASE MEASURES
6.1	Consult the safety measures listed under headings 7 and 8.
PERSONAL PRECAUTIONS	FOR NON EMERGENCY PERSONNEL

	NO ACTION SHALL BE TAKEN IN THE ABSENCE OF PROPER TRAINING OR IF IT INVOLVES PERSONAL RISK. PREVENT ACCESS TO
	PERSONS NOT REQUIRED AND NOT WEARING PROTECTIVE CLOTHING. DO NOT TOUCH OR WALK THROUGH SPILLED MATERIAL. AVOID BREATHING VAPOUR OR MIST. ENSURE ADEQUATE VENTILATION. IF THE VENTILATION IS INADEQUATE, WEAR APPROPRIATI RESPIRATORY PROTECTION. WEAR PROTECTIVE EQUIPMENT. FOR EMERGENCY RESPONDER
	IF SPECIALIZED CLOTHING IS NEEDED TO ADDRESS THE SPILL, SEE SECTION 8 FOR APPROPRIATE AND INAPPROPRIATE MATERIALS. SEE ALSO THE INFORMATION IN "FOR NON-EMERGENCY PERSONNEL".
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	SMALL ACCIDENTAL SPILL STOP LEAK IF WITHOUT RISK. REMOVE CONTAINERS FROM SPILL AREA. DILUTE WITH WATER AND MOP UP IF WATER SOLUBLE. OTHERWISE, OR IF THE MATERIAL IS INSOLUBLE IN WATER, ABSORB WITH AN INERT DRY MATERIAL AND PLACE IN APPROPRIATE WASTE CONTAINER. DISPOSE OF VIA A LICENSED WASTE COLLECTION COMPANY. LARGE ACCIDENTAL SPILL STOP LEAK IF WITHOUT RISK. REMOVE CONTAINERS FROM SPILL AREA. PREVENT ENTRY INTO SEWERS, RIVERS, EXHAUST DUCTS, BASEMENTS OR CONFINED AREAS. WASH SPILLAGES INTO AN EFFLUENT TREATMENT PLANT OR PROCEED AS FOLLOWS. DISPOSE OF VIA A LICENSED WASTE COLLECTION COMPANY. CONTAIN LEAKS AND PICK UP THE PRODUCT USING ABSORBENT NON- COMBUSTIBLE MATERIALS SUCH AS SAND, EARTH, VERMICULITE OR DIATOMACEOUS EARTH. THEN PLACE IN A CONTAINER ACCORDING TO LOCAL REGULATIONS. DISPOSE OF VIA A LICENSED WASTE COLLECTION COMPANY. *CONTAMINATED ABSORBENT MATERIAL MAY POSE THE SAME HAZARDS AS THE SPILLED PRODUCT.
6.4	REFER & CONSIDER SECTION 8.
REFERENCES TO OTHER SECTIONS	REFER & CONSIDER SECTION 13.
SECTION 7: HANDLING & STORAGE	
7.1 Precautions for safe-handling	PROTECTIVE MEASURES WEAR APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT (SEE SECTION 8). PEOPLE WITH A HISTORY OF SKIN SENSITIZATION SHOULD NOT INTERVENE IN THE PROCESSES USING THIS PRODUCT. PROTECT AGAINST ELECTROSTATIC CHARGE. DO NOT ALLOW CONTACT WITH EYES, SKIN OR CLOTHING. DO NOT INGEST. AVOID BREATHING VAPOUR OR MIST. AVOID RELEASE TO THE ENVIRONMENT. KEEP IN ORIGINAL CONTAINER OR IN A CONTAINER APPROVED ALTERNATIVE MADE FROM A COMPATIBLE MATERIAL, KEPT TIGHTLY CLOSED WHEN NOT IN USE. EMPTY CONTAINERS RETAINING PRODUCT RESIDUE CAN BE DANGEROUS. DO NOT REUSE THIS CONTAINER. GENERAL ADVICE ON OCCUPATIONAL HEALTH IT IS FORBIDDEN TO EAT, DRINK OR SMOKE IN AREAS WHERE THIS MATERIAL IS HANDLED, STORED OR USED. IT IS RECOMMENDED THAT STAFF WASH THEIR HANDS AND FACE BEFORE EATING, DRINKING OR SMOKING. REMOVE CONTAMINATED CLOTHING AND PROTECTIVE EQUIPMENT BEFORE ENTERING A FOOD COURT. SEE ALSO SECTION 8 FOR MORE INFORMATION ON HYGIENE MEASURES.
7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES	STORE IN ACCORDANCE WITH LOCAL REGULATIONS. STORE IN ORIGINAL CONTAINER PROTECTED FROM DIRECT SUNLIGHT IN A DRY, COOL AND WELL VENTILATED PLACE AWAY FROM INCOMPATIBLE MATERIALS (SEE SECTION 10). KEEP CONTAINER TIGHTLY CLOSED WHEN NOT IN USE. CONTAINERS THAT HAVE BEEN OPENED MUST BE CAREFULLY RESEALED AND KEPT UPRIGHT TO PREVENT LEAKAGE. DO NOT STORE IN UNLABELLED CONTAINERS. USE APPROPRIATE CONTAINER TO AVOID ENVIRONMENTAL CONTAMINATION.
7.3 SPECIFIC END USE(S)	NO DATA.
SECTION 8: EXPOSURE CONTROLS & PERSONAL PROTECTION	
8.1 Control Parameters	INGREDIENTS WITH LIMIT VALUES THAT REQUIRE MONITORING AT THE WORKPLACE: CAS NO:5989-27-5 (R)-P-mentha-1,8-diene (d-Limonene) AGW (Germany) Long-term value: 28 mg/m³, 5 ppm 4(II);DFG, H, Sh, Y
8.2 EXPOSURE CONTROLS	
EYE PROTECTION	WEAD DROTECTIVE CLOVES (EVE DROTECTION) (FACE PROTECTION)
HAND PROTECTION	WEAR PROTECTIVE GLOVES/EYE PROTECTION/FACE PROTECTION.
	WEAR PROTECTIVE GLOVES/EYE PROTECTION/FACE PROTECTION.



	SUITABLE RESPIRATORY PROTECTION: FILTER CLASS A2 (BROWN COLOUR).
RESPIRATORY EQUIPMENT	USE THE RULES FOR APPLICATION OF RESPIRATORY PROTECTION SYSTEMS. IN CASE OF BRIEF EXPOSURE OR LOW POLLUTION USE
RESTRATORT EQUITMENT	RESPIRATORY FILTER DEVICE. IN CASE OF INTENSIVE OR LONGER EXPOSURE USE SELF-CONTAINED RESPIRATORY PROTECTIVE
	DEVICE.
	THOROUGHLY WASH HANDS, FOREARMS AND FACE AFTER HANDLING CHEMICAL PRODUCTS, BEFORE EATING, SMOKING AND AT
Hygiene Measures	THE END OF THE WORKDAY. IT IS RECOMMENDED TO USE APPROPRIATE TECHNIQUES TO REMOVE POTENTIALLY CONTAMINATED
	WORK CLOTHES. CONTAMINATED WORK CLOTHING SHOULD NOT LEAVE THE WORKPLACE. WASH CONTAMINATED CLOTHING
	BEFORE REUSE. ENSURE THAT EYEWASH STATIONS AND SAFETY SHOWERS ARE NEAR THE LOCATION OF WORKSTATIONS.
Engineering Measures	Ensure adequate ventilation.
Skin Protection	THE PERSONAL PROTECTIVE EQUIPMENT FOR THE BODY SHOULD BE SELECTED ACCORDING TO THE TASK PERFORMED AND THE
	RISKS INVOLVED.
Personal Protection	AVOID INHALATION OF THE PRODUCT. AVOID CONTACT WITH SKIN AND EYES.
OTHER PROTECTION	THE PROPER FOOTWEAR AND ANY MEASURE OF SKIN PROTECTION SHOULD BE CHOSEN ACCORDING TO THE TASK PERFORMED
OTHER I ROTECTION	AND THE RISKS INVOLVED. IT IS RECOMMENDED TO VALIDATE THE EQUIPMENT BY A SPECIALIST BEFORE HANDLING THIS PRODUCT
Process Conditions	ENSURE AREA IS WELL VENTILATED. AVOID VAPOUR INHALATION. SAFETY SHOWER & EYE BATH.
END/IDOMENTAL EVACUATE CONTROL	IT IS IMPORTANT TO TEST EMISSIONS FROM VENTILATION SYSTEMS OR MANUFACTURING EQUIPMENT TO ENSURE THEY COMPLY
ENVIROMENTAL EXPOSURE CONTROLS	WITH LEGISLATIVE REQUIREMENTS ON ENVIRONMENTAL PROTECTION.
SECTION 9: PHYSICAL & CHEMICAL	
PROPERTIES	
I KOT EKTIES	
9.1	
PHYSICAL & CHEMICAL PROPERTIES	
Appearance	Liquid
Colour	Pale Orange to Dark Orange
Odour	Characteristic, Citrus
RELATIVE DENSITY	APPROX. 0.845 @ 20°C
FLASH POINT (°C)	>53.0°C
Refractive Index @ 20 °C	APPROX. 1.475 @ 20°C
SOLUBILITY IN WATER @ 20 °C	NOT MISCIBLE IN WATER OR DIFFICULT TO MIX.
SOLUBILITY IN WATER @ 20 °C BOILING POINT (°C)	NOT MISCIBLE IN WATER OR DIFFICULT TO MIX. > 35.0
BOILING POINT (°C) VAPOUR PRESSURE 9.2	> 35.0
BOILING POINT (°C) VAPOUR PRESSURE	> 35.0 2.3 HPA. @ 20°C.
BOILING POINT (°C) VAPOUR PRESSURE 9.2	> 35.0 2.3 HPA. @ 20°C. Auto-Ignition: Product is not self-igniting; but in case of unpropitious storing conditions (air admission,
BOILING POINT (°C) VAPOUR PRESSURE 9.2 OTHER INFORMATION	> 35.0 2.3 HPA. @ 20°C. AUTO-IGNITION: PRODUCT IS NOT SELF-IGNITING; BUT IN CASE OF UNPROPITIOUS STORING CONDITIONS (AIR ADMISSION, HEAT ACCUMULATION) SELF-IGNITION IS POSSIBLE FOR MOISTENED SOLIDS (E.G. CLOTH, PULP, FILTER PANELS, BINDER).
BOILING POINT (°C) VAPOUR PRESSURE 9.2 OTHER INFORMATION SECTION 10: STABILITY & REACTIVITY	> 35.0 2.3 HPA. @ 20°C. Auto-Ignition: Product is not self-igniting; but in case of unpropitious storing conditions (air admission,
BOILING POINT (°C) VAPOUR PRESSURE 9.2 OTHER INFORMATION SECTION 10: STABILITY & REACTIVITY 10.1	> 35.0 2.3 HPA. @ 20°C. AUTO-IGNITION: PRODUCT IS NOT SELF-IGNITING; BUT IN CASE OF UNPROPITIOUS STORING CONDITIONS (AIR ADMISSION, HEAT ACCUMULATION) SELF-IGNITION IS POSSIBLE FOR MOISTENED SOLIDS (E.G. CLOTH, PULP, FILTER PANELS, BINDER).
BOILING POINT (°C) VAPOUR PRESSURE 9.2 OTHER INFORMATION SECTION 10: STABILITY & REACTIVITY 10.1 REACTIVITY 10.2 CHEMICAL STABILITY	> 35.0 2.3 HPA. @ 20°C. AUTO-IGNITION: PRODUCT IS NOT SELF-IGNITING; BUT IN CASE OF UNPROPITIOUS STORING CONDITIONS (AIR ADMISSION, HEAT ACCUMULATION) SELF-IGNITION IS POSSIBLE FOR MOISTENED SOLIDS (E.G. CLOTH, PULP, FILTER PANELS, BINDER). NO ADDITIONLA DATA AVAILABLE.
BOILING POINT (°C) VAPOUR PRESSURE 9.2 OTHER INFORMATION SECTION 10: STABILITY & REACTIVITY 10.1 REACTIVITY 10.2 CHEMICAL STABILITY 10.3	> 35.0 2.3 HPA. @ 20°C. AUTO-IGNITION: PRODUCT IS NOT SELF-IGNITING; BUT IN CASE OF UNPROPITIOUS STORING CONDITIONS (AIR ADMISSION, HEAT ACCUMULATION) SELF-IGNITION IS POSSIBLE FOR MOISTENED SOLIDS (E.G. CLOTH, PULP, FILTER PANELS, BINDER). NO ADDITIONLA DATA AVAILABLE. STABLE UNDER SUGGESTED STORAGE CONDITIONS (<15°C).
BOILING POINT (°C) VAPOUR PRESSURE 9.2 OTHER INFORMATION SECTION 10: STABILITY & REACTIVITY 10.1 REACTIVITY 10.2 CHEMICAL STABILITY	> 35.0 2.3 HPA. @ 20°C. AUTO-IGNITION: PRODUCT IS NOT SELF-IGNITING; BUT IN CASE OF UNPROPITIOUS STORING CONDITIONS (AIR ADMISSION, HEAT ACCUMULATION) SELF-IGNITION IS POSSIBLE FOR MOISTENED SOLIDS (E.G. CLOTH, PULP, FILTER PANELS, BINDER). NO ADDITIONLA DATA AVAILABLE. STABLE UNDER SUGGESTED STORAGE CONDITIONS (<15°C). FORMATION OF EXPLOSIVE GAS MIXTURE WITH AIR POSSIBLE. PRODUCT IS NOT SELF-IGNITING; BUT IN CASE OF UNPROPITIOUS
9.2 OTHER INFORMATION SECTION 10: STABILITY & REACTIVITY 10.1 REACTIVITY 10.2 CHEMICAL STABILITY 10.3	> 35.0 2.3 HPA. @ 20°C. AUTO-IGNITION: PRODUCT IS NOT SELF-IGNITING; BUT IN CASE OF UNPROPITIOUS STORING CONDITIONS (AIR ADMISSION, HEAT ACCUMULATION) SELF-IGNITION IS POSSIBLE FOR MOISTENED SOLIDS (E.G. CLOTH, PULP, FILTER PANELS, BINDER). NO ADDITIONLA DATA AVAILABLE. STABLE UNDER SUGGESTED STORAGE CONDITIONS (<15°C). FORMATION OF EXPLOSIVE GAS MIXTURE WITH AIR POSSIBLE. PRODUCT IS NOT SELF-IGNITING; BUT IN CASE OF UNPROPITIOUS STORING CONDITIONS (AIR ADMISSION, HEAT ACCUMULATION) SELF-IGNITION IS POSSIBLE FOR MOISTENED SOLIDS (E.G.
BOILING POINT (°C) VAPOUR PRESSURE 9.2 OTHER INFORMATION SECTION 10: STABILITY & REACTIVITY 10.1 REACTIVITY 10.2 CHEMICAL STABILITY 10.3 POSSIBILITY OF HAZARDOUS REACTIONS	> 35.0 2.3 HPA. @ 20°C. AUTO-IGNITION: PRODUCT IS NOT SELF-IGNITING; BUT IN CASE OF UNPROPITIOUS STORING CONDITIONS (AIR ADMISSION, HEAT ACCUMULATION) SELF-IGNITION IS POSSIBLE FOR MOISTENED SOLIDS (E.G. CLOTH, PULP, FILTER PANELS, BINDER). NO ADDITIONLA DATA AVAILABLE. STABLE UNDER SUGGESTED STORAGE CONDITIONS (<15°C). FORMATION OF EXPLOSIVE GAS MIXTURE WITH AIR POSSIBLE. PRODUCT IS NOT SELF-IGNITING; BUT IN CASE OF UNPROPITIOUS STORING CONDITIONS (AIR ADMISSION, HEAT ACCUMULATION) SELF-IGNITION IS POSSIBLE FOR MOISTENED SOLIDS (E.G. CLOTH, PULP, FILTER PANELS, BINDER). REACTS VIOLENTLY WITH OXIDISING AGENTS.



SECTION 11: TOXICOLOGICAL INFORMATION	
11.1 TOXICOLOGICAL EFFECTS	
ACUTE TOXICITY	BASED ON AVAILABLE DATA, THE CLASSIFICATION CRITERIA ARE NOT MET.
Skin irritation	Causes skin irritation.
EYE DAMAGE OR IRRITATION	BASED ON AVAILABLE DATA, THE CLASSIFICATION CRITERIA ARE NOT MET.
RESPIRATORY OR SKIN SENSITIVITY	MAY CAUSE AN ALLERGIC SKIN REACTION.
GERM CELL MUTAGENICITY	BASED ON AVAILABLE DATA, THE CLASSIFICATION CRITERIA ARE NOT MET.
CARCINOGENICITY	BASED ON AVAILABLE DATA, THE CLASSIFICATION CRITERIA ARE NOT MET.
REPRODUCTIVE TOXICITY	BASED ON AVAILABLE DATA, THE CLASSIFICATION CRITERIA ARE NOT MET.
STOT – SINGLE EXPOSURE	BASED ON AVAILABLE DATA, THE CLASSIFICATION CRITERIA ARE NOT MET.
STOT — REPEATED EXPOSURE	BASED ON AVAILABLE DATA, THE CLASSIFICATION CRITERIA ARE NOT MET.
ASPIRATION HAZARD	MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS. ASPIRATION MAY CAUSE LUNG DAMAGE.
OTHER INFORMATION	NO ADDITIONAL INFORMATION AVAILABLE.
SECTION 12: ECOLOGICAL INFORMATION	
12.1 Τοχι ς ιτγ	VERY TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS. AQUATIC TOXICITY: LIMONENE (CICADO5; WWW.INCHEM.ORG/DOCUMENTS/CICADS/CICADS/CICADO5.HTM): - PIMPHALES PROMELAS / LC50 (96H): 0.7 mg/L - DAPHNIA MAGNA / EC50 (48H): 0.4 mg/L
12.2 PERSISTENCE & DEGRADABILITY	No Additional Data Available.
12.3 BIO- ACCUMULATIVE POTENTIAL	No Additional Data Available.
12.4 MOBILITY IN SOIL 12.5	NO ADDITIONAL DATA AVAILABLE.
RESULTS OF PBT & VPVB ASSESSMENT	NO ADDITIONAL DATA AVAILABLE.
12.6 OTHER ADVERSE EFFECTS	Water hazard class 3 (German regulation) (VWVwS 3822; CAS 84929-38-4): severe hazardous for Water. Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground. Also poisonous for fish and plankton in water bodies. Very toxic for aquatic organisms.
SECTION 13: DISPOSAL INFORMATION	
13.1 Waste treatment methods	DO NOT ALLOW ENTRY INTO DRAINS OR WATERWAYS. RECYCLE OR DISPOSE OF WASTE IN COMPLIANCE WITH CURRENT LEGISLATION, PREFERABLY VIA A CERTIFIED COLLECTOR OR COMPANY. DO NOT CONTAMINATE THE GROUND OR WATER WITH WASTE. DO NOT DISPOSE OF WASTE INTO THE ENVIRONMENT. WASTE PACKAGING: EMPTY CONTAMINATED PACKAGING THOROUGHLY. THEY MAY BE RECYCLED AFTER THOROUGH AND PROPER CLEANING. PACKAGING THAT MAY NOT BE CLEANED IS TO BE DISPOSED OF IN THE SAME MANNER AS THE PRODUCT. MOISTENED SOLIDS (E.G. CLOTH, PULP, FILTER PANELS, BINDER) CAN BE BURNT AFTER CONSULTING WITH THE WASTE DISPOSAL FACILITY OPERATOR AND THE PERTINENT AUTHORITIES AND ADHERING TO THE NECESSARY TECHNICAL REGULATIONS.

SECTION 14: TRANSPORT INFORMATION	
14.1 TRANSPORT INFORMATION	
	ROAD: 1169
UN Number	RAIL: 1169
	AIR: 1169
14.2	EXTRACTS, AROMATIC, LIQUID
UN SHIPPING NAME	EXTRACTS, AROMATIC, LIQUID
	ADR/RID/ADN CLASS 3 IMDG CLASS 3 ICAO CLASS/DIVISION 3
	Transport Labels
14.3 TRANSPORT HAZARD CLASS(ES)	FLAMMABLE
	3
14.4	ADR/RID/ADN PACKING GROUP III
PACKING GROUP	IMDG PACKING GROUP III ICAO PACKING GROUP III
14.5 ENVIROMENTAL HAZARDS	\(\frac{\frac{1}{2}}{2}\)
14.6 SPECIAL PRECAUTIONS FOR USER	See section 6 to 8.
147	
14.7 TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL73/78 & THE IBC	No additional data available.
CODE.	Tunnel restriction code D/E
SECTION 15: REGULATORY INFORMATION	
15.1 PRODUCT SPECIFIC SAFETY, HEALTH & ENVIRONMENTAL REGULATIONS & LEGISLATION	
EU DIRECTIVES	REGULATION (EC) NO 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL OF 18 TH DECEMBER 2006. CONCERNING THE REGISTRATION, EVALUATION, AUTHORIZATION & RESTRICTION OF CHEMICALS (REACH), ESTABLISHING A EUROPEAN CHEMICALS AGENCY, AMENDING DIRECTIVE 1999/45/EC AND REPEALING COUNCIL REGULATION (EEC) NO793/93 & COMMISSION REGULATION (EC) NO1488/94 AS WELL AS COUNCIL DIRECTIVE 76/769/EEC & COMMISSION
	DIRECTIVE 91/155/ECC, 93/67/ECC, 93/105/EEC & 2000/21/EC (INCLUDING AMENDMENTS).
STATUTORY INSTRUMENTS	THE CHEMICALS (HAZARD INFORMATION & PACKAGING FOR SUPPLY REGULATIONS 2009 (S.I.2009 NO 716).
Approved Code of Practice	CLASSIFICATION & LABELLING OF SUBSTANCES & PREPARATIONS DANGEROUS FOR SUPPLY. SAFETY DATA



	SHEETS FOR SUBSTANCES & PREPARATIONS.
GUIDANCE NOTES	WORKPLACE EXPOSURE LIMITS EH40. CHIP FOR EVERYONE HSG 108.
15.2	
CHEMICAL SAFETY ASSESSMENT	-

SECTION 16: OTHER INFORMATION	
Hazard and/ or Precautionary Statements in full	H226: Flammable liquid and vapour. H302: Harmful if swallowed. H304: May be fatal if swallowed and enters airways. H315: Causes skin irritation. H317: May cause an allergic skin reaction. H319: Causes serious eye irritation. H400: Very toxic to aquatic life. 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 [™] April 2018	Data Launch
FEBRUARY 2021	Review



SPECIFICATION SHEET

PRODUCT NAME: MANDARIN (RED), ESSENTIAL OIL ORGANIC

PRODUCT INCI: CITRUS NOBILIS PEEL OIL EXPRESSED

CAS NUMBER: 84929-38-4 EINECS NUMBER: 284-521-0

MANUFACTURING METHOD: EXPRESSED SHELF LIFE / BEST BEFORE: 24 MONTHS

ANALYTICAL DETAILS	RANGE
Appearance	LIQUID
Colour	Pale Orange - Dark Orange
Odour	CHARACTERISTIC
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:

FEBRUARY 2021



February 2021

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.



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.