CERTIFICATE OF ANALYSIS

|--|

PRODUCT INCI: CITRUS NOBILIS PEEL OIL

PRODUCT CODE: OCMANDRED

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

MANUFACTURING METHOD: EXPRESSED

BEST BEFORE OCTOBER 2023

| ANALYTICAL DETAILS | Range | RESULTS | | |
|------------------------------|------------------------|---------|--|--|
| Appearance | LIQUID | - | | |
| COLOUR | Dark Yellow - Orange | - | | |
| Odour | CHARACTERISTIC, CITRUS | - | | |
| Specific Gravity @ 200C | 0.841-0.852 | 0.8486 | | |
| Refractive Index @ 20 C | 1.469 - 1.479 | 1.4743 | | |
| Optical Rotation (\Box C) | +72.0 то +82.0 | +82.0 | | |
| | | | | |
| Storage Conditions | | | | |

STORE IN A COOL DRY PLACE AWAY FROM HEAT & SUNLIGHT

Allergen Declaration:

| PRODUCT NAME: INCI: | Mandarin (Red), Essential Oil Organic Citrus Nobilis Peel | | | |
|--------------------------|--|--|-------------------------------|--------------------------|
| | COSMETIC ALLERGENS | | | |
| Th | e Following is from the 7th amendment of the cosmetic directive of the European Union Annex ill. | | | |
| 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 | | | |
| | nision directive 2007/68/EC of 27th November 2007 amending Annex IIIa to Directive 200/13/EC of the European Porfe | ament & Council with regards to specific food ing PRESENT IN PRODUCT: | | FACTORY PRESENCE: |
| nex Illa Reference: 1 | CEREALS (CONTAINING GLUTEN) | PRESENT IN PRODUCT: NO | NO | FACTORY PRESENCE: YES |
| 2 | CRUSTACEANS | NO | NO | NO |
| 2 | EGGS | NO | NO | NO |
| 4 | FISH | NO | NO | NO |
| - | PEANUTS | NO | NO | YES |
| 5 | SOYA | NO | NO | YES |
| 7 | MILK | NO | NO | YES |
| 8 | NUTS | | | YES |
| | | NO | NO | |
| 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 |

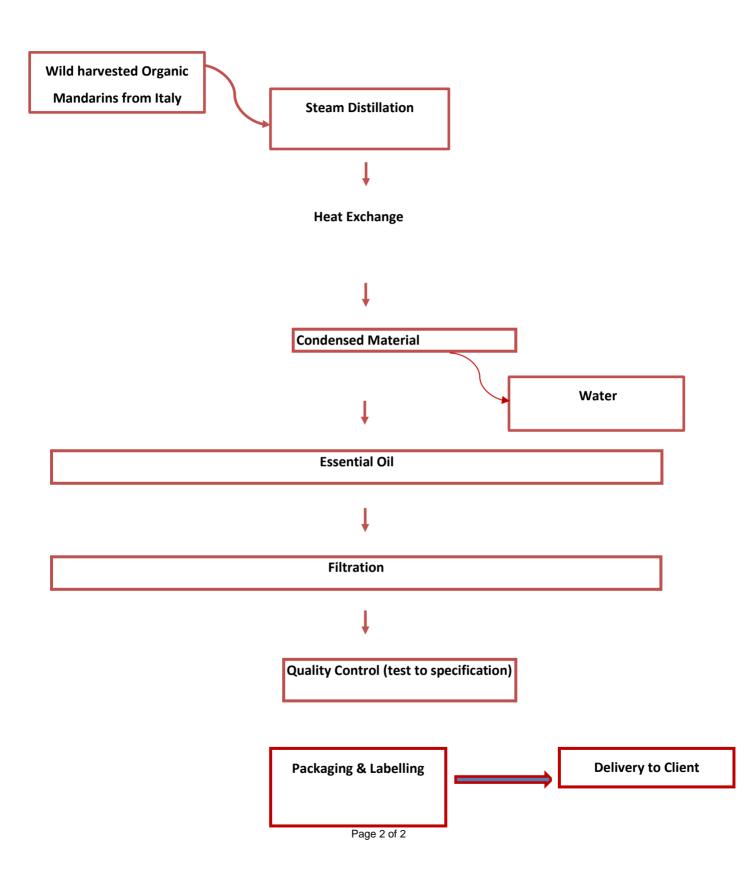
Page 1 of 1

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 |



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 48TH 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 | l | | |
| Class 1 | | 21.62 | | | |
| CLASS 2 | | 27.03 | | | |
| CLASS 3A | | NOT RESTRICTED. | 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 | s, clear or colored etc) | Class 1 | |
| Deodorant and Antiperspirant products of all types (spray, st | ick, 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 Fragra | ance range). | Class 4.B | |
| Hair Styling Aids and Hair Sprays of all types (pumps, aeroso Oils, Lotions of all types (including baby creams, lotions, oils). 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 | | | |
| 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 AND OF THE COMPANY/UNDERTAKING | | | | | |
|---|---|----------------------------------|-----------------------------------|--------------------|---|
| 1.1 PRODUCT IDENTIFICATION | | | | | |
| Product Name | Mandarin Red, Essei | NTIAL ORGANI | c | | |
| BIOLOGICAL DEFINITION | CITRUS NOBILIS PEEL C | DIL EXPRESSED | IS AN ESSENTIAL OIL EXPRESSED FRC | OM THE EPICARPS OF | THE MANDARIN, CITRUS NOBILIS, RUTACEAE. |
| INCI NAME | CITRUS NOBILIS PEEL C | DIL | | | |
| Synonyms & Trade Names | - | | | | |
| INTERNAL PRODUCT CODE | К0279 | 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 data sheet | | | | | |
| COMPANY ADDRESS | 0\$'\$5&RUSRUDWLRQ/LPLWHG 6DQGOHKHDWKLQGXVWULDO(VWDWH)RUGLQJEULGJH+DPSVKLUH633\$ | | | | |
| EMAIL | technical@madarcorporation.co.uk | | | | |
| 1.3 Details of the supplier of the safety data sheet | | | | | |
| EMERGENCY CONTACTS | 01425 655555 dui | 01425 655555 during office hours | | | |

| 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 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 | H410 VERY TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS. 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. | | |
| 2.3 Other Hazards | Section 16 (Other Information): Risk & Safety phrases in full. | | |
| Adverse physio-chemical properties | No data | | |
| Adverse effects on human health | NO DATA. | | |
| PBT or vPvB according to Annex XIII | ΝΟ ΔΑΤΑ | | |
| | | | |
| SECTION 3: COMPOSITION OF INGREDIE | TS | | |
| 3.2 MIXTURES | ~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 ~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. | |

| SECTION 5: FIRE FIGHTING MEASURES | | |
|---|--|--|
| 5.1 Extinguishing material | FOAM, CO2, DRY CHEMICAL POWDER. | |
| 5.2 Special hazards arising from the substance Or Mixture | BURNING PRODUCES IRRITATING, TOXIC AND OBNOXIOUS FUMES | |
| 5.3 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 SPIL 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. | |
|--------------------------------------|---|---|
| | SMOKE WHEN USING THIS PRODUCT. | |
| | 7.1 Precautions for safe-handling | 7.1 HOT SURFACES NO SMOKING. USE PERSONAL PROTECTIVE EQUIPMENT AS REQUIRED. USE IN ACCORDANCE WITH GOOD PRECAUTIONS FOR SAFE-HANDLING MANUFACTURING AND INDUSTRIAL HYGIENE PRACTICES. USE IN AREAS WITH ADEQUATE VENTILATION DO NOT EAT, DRINK OR |

| 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) | ΝΟ ΔΑΤΑ. |

| 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. |
| | 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 | |
|---------------------------------------|----------------------------------|
| 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

| 10.1 Reactivity | | | |
|--|---|---|--|
| 10.2 | NO HAZARDOUS REACTIONS IF STORED AND HANDLED AS PRESCRIBED / INDICATED. | | |
| 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 OXIDISNING SUBSTANCES. | | |
| 10.6 | | | |
| HAZARDOUS DECOMPOSITION PRODUCTS | | DOES NOT DECOMPOSE UNDER NORMAL CONDITIONS. UNDER FIRE CONDITIONS THE PRODUCT WILL PRODUCE RITATING FUMES & SMOKE & CARBON MONOXIDE. | |
| SECTION 11: TOXICOLOGICAL INFORMATION | N | | |
| 11.1 Toxicological effects | | | |
| Αсυτε Τοχιςιτγ | | 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 | R SKIN SENSITIVITY | NO DATA | |
| GERM CEL | LL MUTAGENICITY | NO DATA | |
| CARCINOGENICITY | | NOT APPLICABLE. | |
| Reprod | DUCTIVE TOXICITY | NOT APPLICABLE. | |
| STOT – S | SINGLE EXPOSURE | NOT APPLICABLE. | |
| STOT – REP | PEATED EXPOSURE | NOT APPLICABLE. | |
| Asp | IRATION HAZARD | MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS (H304). | |
| Отн | IER INFORMATION | NO DATA. | |
| | | | |
| SECTION 12: ECOLOGICAL INFORMATION | | | |
| 12.1 Toxicity | | 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. | |
| 12.2 Persistence & degradability | | EXPECTED TO BE READILY BIODEGRADABLE. | |
| 12.3 BIO- ACCUMULATIVE POTENTIAL | | HAZARD STATEMENT: H410 VERY 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 ADR/RID/ADN Class 3 ADR/RID/ADN Class 3 IMDG Class 3 ICAO Class/Division 3 |
| 14.3 Transport Hazard class(es) | 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

| European Parliament and of the council of 18^{th} |
|--|
| ATION, EVALUATION, AUTHORIZATION & RESTRICTION OF |
| PEAN CHEMICALS AGENCY, AMENDING DIRECTIVE |
| GULATION (EEC) NO793/93 & COMMISSION |
| S COUNCIL DIRECTIVE 76/769/EEC & COMMISSION |
| 2/105/EEC & 2000/21/EC (INCLUDING AMENDMENTS). |
| ACKAGING FOR SUPPLY REGULATIONS 2009 (S.I. 2009 |
| is & preparations dangerous for supply. Safety data |
| |
| FOR EVERYONE HSG 108. |
| |
| |
| |

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. | | |
| A | | |
| 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 TH 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 | Dark Yellow - Orange |
| Odour | CHARACTERISTIC, CITRUS |
| SPECIFIC GRAVITY @ 200C | 0.841 – 0.852 |
| REFRACTIVE INDEX @ 200C | 1.469 – 1.479 |
| OPTICAL ROTATION ($\Box C$) | +72.0 то +82.0 |
| PEROXIDE VALUE (MMOL/L) | <20.0 |
| | |
| STORE IN A COOL DRY PLACE AWAY FROM HEAT & SUNLIGHT | |

DOCUMENTATION REVIEW DATE:

24TH MAY 2018

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.