

## **CERTIFICATE OF ANALYSIS**

PRODUCT NAME: PETITGRAIN, ESSENTIAL OIL

**BATCH NUMBER: 4546804** 

PRODUCT INCI: CITRUS AURANTIUM AMARA (BITTER ORANGE) LEAF OIL

CAS NUMBER: 689-04-1 / 72968-50-4

**EINECS NUMBER: 277-143-2** 

MANUFACTURING METHOD: STEAM DISTILLED

BEST BEFORE DATE: June 2027

Analytical Details	Range	RESULTS
Appearance	LIQUID	-
COLOUR	PALE YELLOW - BROWN	-
Odour	CHARACTERISTIC	-
Specific Gravity @ 20°C	0.882 - 0.893	0.8884
Refractive Index @ 20°C	1.450 – 1.465	1.4587
OPTICAL ROTATION (°C)	-7.0 TO +1.0	-1.6

#### **STORAGE CONDITIONS**

STORE IN A COOL DRY PLACE AWAY FROM HEAT & SUNLIGHT



## **ALLERGEN STATEMENT**

PRODUCT NAME: PETITGRAIN, ESSENTIAL OIL

### **COSMETIC ALLERGENS**

Annex Illa		CAC AULAADED	TOTAL ALLERGEN	
Reference:		CAS NUMBER:	INCLUSION (%):	
67	AMYL CINNAMAL	122-40-7	0.000	
68	BENZYL ALCOHOL	100-51-6	0.000	
69	CINNAMYL ALCOHOL	104-54-1	0.000	
70	CITRAL	5392-40-5	0.000	
71	EUGENOL	97-53-0	0.000	
72	HYDROXY-CITRONELLAL	107-75-5	0.000	
73	ISO EUGENOL	97-54-1	0.000	
74	AMYLCIN-NAMYL ALCOHOL	101-85-9	0.000	
75	BENZYL SALICYLATE	118-58-1	0.000	
76	CINNAMAL	104-55-2	0.000	
77	COUMARIN	91-64-5	0.000	
78	GERANIOL	106-24-1	0.000	
70	HYDROXYISOHEXYL 3-CYCLOHEXENE	31906-04-4	0.000	
79	CARBOXALDEHYDE	31900-04-4	0.000	
80	ANISE ALCOHOL	105-13-5	0.000	
81	BENZYL CINNAMATE	103-41-3	0.000	
82	FARNESOL	4602-84-0	0.000	
83	BUTYLPHENYL METHYLPROPIONAL	80-54-6	0.000	
84	LINALOOL	78-70-6	25.00	
85	BENZYL BENZOATE	120-51-4	0.000	
86	CITRONELLOL	106-22-9	0.000	
87	HEXYL CINNAM-ALDEHYDE	101-86-0	0.000	
88	LIMONENE	5989-27-5	2.000	
89	METHYL 2-OCTYNOATE	111-12-6	0.000	
90	ALPHA-ISOMETHYL IONONE	127-51-5	0.000	
91	EVERNIA PRUNASTRI EXTRACT	90028-68-5	0.000	
92	EVERNIA FURFURACEA EXTRACT	90028-67-4	0.000	



#### **FOOD ALLERGENS**

Annex Illa		PRESENT IN	CONTAMINATION	FACTORY
Reference:		PRODUCT:	PRESENCE:	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	YES
10	MUSTARD	NO	NO	YES
11	SESAME	NO	NO	YES
12	SULPHUR DIOXIDE & SULPHITES	NO	NO	NO
13	LUPIN	NO	NO	NO
14	MOLLUSC	NO	NO	NO



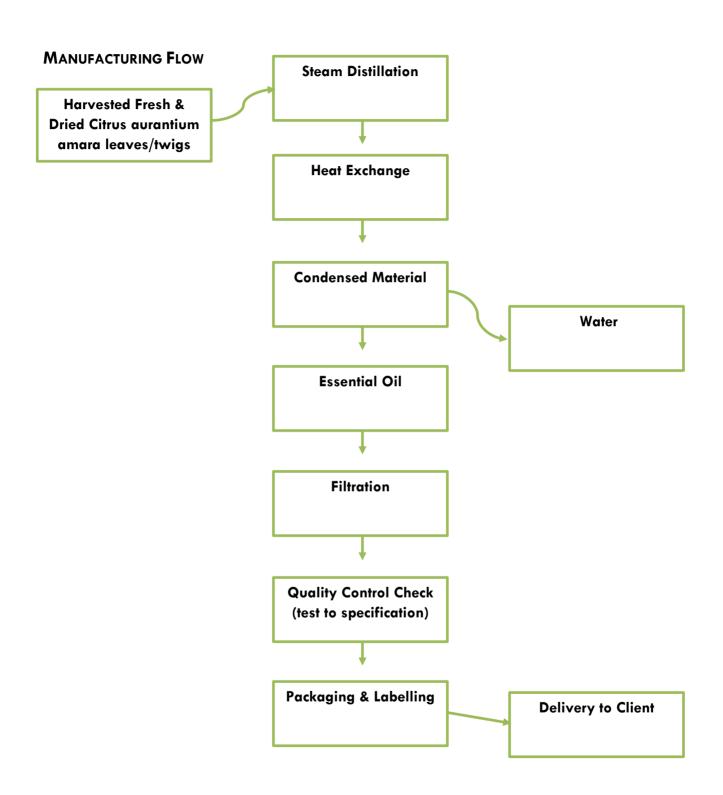
## MANUFACTURING FLOW & INCI STATEMENT

PRODUCT NAME: PETITGRAIN, ESSENTIAL OIL

### **INCI STATEMENT**

We can hereby confirm the following composition breakdown & manufacturing process flow.

INCI Name	% Inclusion	CAS Number
Citrus aurantium amara leaf/twig oil	100	68916-04-1 / 72968-50-4





### **GMO Statement**

PRODUCT NAME: Petitgrain Essential Oil

 $\mbox{MADAR}$  Corporation Limited can confirm that the above listed product is  $\mbox{GMO}$  Free.

19-04-23



## **IFRA STATEMENT**

PRODUCT NAME: PETITGRAIN, ESSENTIAL OIL

PRODUCT INCI: CITRUS AURANTIUM AMARA LEAF/TWIG OIL

WE CERTIFY THAT THE ABOVE-MENTIONED MATERIAL CONFORMS TO THE IFRA 50 CODE OF PRACTICE AND CONTAINS THE FOLLOWING RESTRICTED COMPONENTS THAT ARE LISTED IN THE  $50^{\text{TH}}$  AMENDMENT OF THE IFRA CODE OF PRACTICE:

Restricted Component	Cas No:	% Level in Product	IFRA Standard
Geraniol	106-24-1	≤ 0.37	Restriction
Citral	5392-40-5, 141- 27-5, 106-26-3	≤ 3.00	Restriction
Limonene	138-86-3 5989-27-5 5989-54-8	≤ 2.00	Specification Std
Linalool	126-90-9 126-91-0 78-70-6	≤25.00	Specification Std

IFRA Category	% Maximum Use Level
IFRA Category 1	28.33
IFRA Category 2	8.33
IFRA Category 3	27.02
IFRA Category 4	Not Limited
IFRA Category 5A	40.0
IFRA Category 5B	40.0
IFRA Category 5C	40.0
IFRA Category 5D	13.78
IFRA Category 6	93.33
IFRA Category 7A	54.05
IFRA Category 7B	54.05
IFRA Category 8	13.78
IFRA Category 9	Not Limited
IFRA Category 10A	Not Limited
IFRA Category 10B	Not Limited
IFRA Category 11A	13.78
IFRA Category 11B	13.78
IFRA Category 12	Not Limited

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)		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
Category 5C	(women facial creams) Hand cream. Nail care products including cuticle creams, etc. Hand sanitizers	No	(leave-on products) Applicable (leave-on products)
Category 5D	Baby cream/lotion, baby oil, baby powders and talc.	No	Applicable
Category 6	Toothpaste. Mouthwash, including breath sprays. Toothpowder, strips, mouthwash tablets	Yes	(leave-on products) 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).  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	NO	Applicable (rinse-off products)
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: 2020/878

SECTION 1: IDENTIFICATION OF	THE SUBSTANCE	/MIXTURE	AND OF THE COMPANY/	UNDERTAKING	
1.1 PRODUCT IDENTIFICATION					
PRODUCT NAME	PETITGRAIN, ESSENTIA	l OIL			
BIOLOGICAL DEFINITION	THE VOLATILE OIL OBT ORANGE TREE CITRUS			TWIGS AND LEAVES OF	AN ACCLIMATISED VARIETY OF THE BITTER
INCI NAME	CITRUS AURANTIUM A	MARA LEAF/TW	IG OIL		
SYNONYMS & TRADE NAMES	-				
INTERNAL PRODUCT CODE	OEPETI				
CAS-No	68916-04-1 / 72968-50-4	EC No.	277-143-2	EINECS No.	277-143-2
1.2 DETAILS OF THE SUPPLIER OF THE SAFETY DAT	'A SHEET				
COMPANY ADDRESS	Madar Corporation 19 20 Sandleheat		tate, Fordingbridge, SP6 1PA		
EMAIL	technical@madarcorpo	ration.co.uk			
1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DAT	'A SHEET				
EMERGENCY CONTACTS	01425 655 555				

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 R-PHRASES AND HAZARD STATEMENTS ARE DISPLAYED IN SECTION 16.	
CLASSIFICATION (EU1272/2008)	SKIN CORROSION / IRRITATION CATEGORY 2  EYE DAMAGE / IRRITATION CATEGORY 1  SENSITIZATION - SKIN CATEGORY 1  ASPIRATION HAZARD CATEGORY 1  HAZARDOUS TO THE AQUATIC ENVIRONMENT - LONG-TERM HAZARD CATEGORY 2  H304, MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS.  H315, CAUSES SKIN IRRITATION.  H317, MAY CAUSE AN ALLERGIC SKIN REACTION.  H318, CAUSES SERIOUS EYE DAMAGE.  H411, TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS.	
2.2 Label Elements	LABEL IN ACCORDANCE WITH REGULATION (EC) NO 1272/2008.	
GHS LABEL	GHS07 GHS08 GHS09 GHS05	
Signal Word	DANGER.	
CONTAINS	Geranyl Acetate, Geraniol, Beta Pinene, Nerol, (S)-p-mentha-1,8-diene, a terpinolene, Alpha Pinene	
HAZARDS STATEMENT	H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H411 Toxic to aquatic life with long lasting effects.	
Precautionary Statements	P261, AVOID BREATHING VAPOUR OR DUST. P264, WASH HANDS AND OTHER CONTACTED SKIN THOROUGHLY AFTER HANDLING. P272, CONTAMINATED WORK CLOTHING SHOULD NOT BE ALLOWED OUT OF THE WORKPLACE. P273, AVOID RELEASE TO THE ENVIRONMENT. P280, WEAR PROTECTIVE GLOVES/EYE PROTECTION/FACE PROTECTION. P301/310, IF SWALLOWED: IMMEDIATELY CALL A POISON CENTER OR DOCTOR/PHYSICIAN. P302/352, IF ON SKIN: WASH WITH PLENTY OF SOAP AND WATER. P305/351/338, IF IN EYES: RINSE CAUTIOUSLY WITH WATER FOR SEVERAL MINUTES. REMOVE CONTACT LENSES, IF PRESEN AND EASY TO DO. CONTINUE RINSING. P310, IMMEDIATELY CALL A POISON CENTER OR DOCTOR/PHYSICIAN. P331, DO NOT INDUCE VOMITING. P333/313, IF SKIN IRRITATION OR RASH OCCURS: GET MEDICAL ADVICE/ATTENTION. P362, TAKE OFF CONTAMINATED CLOTHING AND WASH BEFORE REUSE. P391, COLLECT SPILLAGE. P405, STORE LOCKED UP. P501, DISPOSE OF CONTENTS/CONTAINER TO APPROVED DISPOSAL SITE, IN ACCORDANCE WITH LOCAL REGULATIONS.	
SUPPLEMENTARY PRECAUTIONARY STATEMENTS	P264 WASH CONTAMINATED SKIN THOROUGHLY AFTER HANDLING.	
	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.	

	50 - 100% LINALYL ACETATE CAS: 115-95-7 EC: 204-116-4
	CLASSIFICATION (EC 1272/2008) SKIN IRRIT. 2 - H315; EYE IRRIT. 2 - H319
	<b>20 - &lt;50% LINALOOL</b> CAS: 78-70-6 EC: 201-134-4
	CLASSIFICATION (EC 1272/2008) SKIN IRRIT. 2 - H315; EYE IRRIT. 2 - H319
	<b>5 – &lt;10.0% ALPHA-TERPINEOL</b> CAS: 98-55-5 EC: 202-680-6 CLASSIFICATION (EC 1272/2008) SKIN IRRIT. 2 - H315, EYE IRRIT. 2 - H319
	5 - <10.0% GERANYL ACETATE CAS: 105-87-3 EC: 203-341-5 CLASSIFICATION (EC 1272/2008) SKIN IRRIT. 2 - H315, SKIN SENS. 1B - H317, AQUATIC CHRONIC 3 - H412
	1.0 - <5.0% GERANIOL CAS: 106-24-1 EC: 203-377-1 CLASSIFICATION (EC 1272/2008) SKIN IRRIT. 2 - H315, EYE DAM. 1 - H318, SKIN SENS. 1 - H317
	1.0 – <5.0% NERYL ACETATE CAS: 141-12-8 EC: 205-459-2 CLASSIFICATION (EC 1272/2008) SKIN IRRIT. 2-SKIN SENS. 1B;H315-H317,-
	1.0 - <5.0% MYRCENE CAS: 123-35-3 EC:204-622-5 CLASSIFICATION (EC 1272/2008) FLAM. LIQ. 3 - H226, SKIN IRRIT. 2 - H315, EYE IRRIT. 2 - H319, ASP. TOX. 1 - H304
	1.0 - <5.0% NEROL CAS: 106-25-2 EC: 203-378-7 CLASSIFICATION (EC 1272/2008) SKIN IRRIT. 2 - H315, SKIN SENS. 1 - H317, EYE IRRIT. 2 - H319
	1.0 - <5.0% BETA-PINENE CAS: 127-91-3 EC: 204-872-5 CLASSIFICATION (EC 1272/2008) M FACTOR (ACUTE) = 1 M FACTOR (CHRONIC) = 1 FLAM. LIQ. 3 - H226, ASP. TOX. 1 - H304, SKIN IRRIT. 2 - H315, SKIN
3.2 MIXTURES	1.0 - <5.0% LIMONENE CAS: 7705-14-8 EC: 231-732-0 CLASSIFICATION (EC 1272/2008) FLAM. LIQ. 3-SKIN IRRIT.2-SKIN SENS. 1B-ASP. TOX 1-AQUATIC ACUTE 1- AQUATIC CHRONIC 1; H226-H304-H315-H317-H410,-
	1.0 – <5.0% cis-beta-Ocimene CAS: 3338-55-4 EC: 222-081-3 Classification (EC 1272/2008) Flam. Liq. 3-Skin Irrit. 2-Asp. Tox 1-Aquatic Acute 1-Aquatic Chronic 2;H226-H304- H315-H400-H411,-
	1.0 - <5.0% BETA-CARYOPHYLLENE CAS: 87-44-5 EC: 201-746-1 CLASSIFICATION (EC 1272/2008) SKIN SENS. 1B-ASP. TOX 1;H304-H317,-
	0.1-<1% DELTA-3-CARENE CAS: 13466-78-9 EC: 236-719-3 CLASSIFICATION (EC 1272/2008) FLAM. LIQ. 3-SKIN IRRIT. 2-SKIN SENS. 1-ASP. TOX 1-AQUATIC ACUTE 1- AQUATIC CHRONIC 1; H226-H304-H315- H317-H410,-
	0.1-<1% Terpinolene CAS: 586-62-9 EC: 209-578-0 CLASSIFICATION (EC 1272/2008) SKIN SENS. 1B-ASP. TOX 1-AQUATIC ACUTE 1- AQUATIC CHRONIC 1; H304-H317-H410,-
	0.1 - 1% Alpha-pinene CAS: 80-56-8 EC: 201-291-9  Classification (EC 1272/2008) M factor (Acute) = 1 M factor (Chronic) = 1 Flam. Liq. 3 - H226, Skin Irrit. 1 - H315, Skin Sens. 1 - H317, Asp. Tox. 1 - H304, Aquatic Acute 1 - H400, Aquatic Chronic 1 - H410
	0.1 - 1% EUCALYPTOL CAS: 470-82-6 EC: 207-431-5 CLASSIFICATION (EC 1272/2008) FLAM. LIQ. 3-SKIN SENS. 1B;H226-H317,-
	<b>0.1 - 1% TRANS-NEROLIDOL</b> CAS: 40716-66-3 EC: 255-053-4 CLASSIFICATION (EC 1272/2008) SKIN SENS. 1B-AQUATIC ACUTE 1-AQUATIC CHRONIC 1;H317-H410,-

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)	MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS.  CAUSES SKIN IRRITATION.  MAY CAUSE AN ALLERGIC SKIN REACTION.  CAUSES SERIOUS EYE DAMAGE.	
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 MEAS	URE	
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 OF 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)	FRAGRANCES, NATURAL COSMETICS AND SPA TREATMENTS: USE IN ACCORDANCE WITH GOOD MANUFACTURING AND INDUSTRIAL HYGIENE PRACTICES.	
SECTION 8: EXPOSURE CONTROLS & PERSONAL PROTECTION		
8.1 CONTROL PARAMETERS	NOT APPLICABLE.	
8.2 EXPOSURE CONTROLS		



EYE PROTECTION	WEAR PROTECTIVE GLOVES/EYE PROTECTION/FACE PROTECTION.	
HAND PROTECTION	WEAR PROTECTIVE GLOVES/EYE PROTECTION/FACE PROTECTION.	
RESPIRATORY EQUIPMENT	NO DATA	
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	CLEAR	
Colour	YELLOW - BROWN	
Odour	Characteristic	
RELATIVE DENSITY	0.881 to 0.911 @ 20°C	
FLASH POINT (°C)	75°C	
Refractive Index @ 20 °C	1.4550 to 1.4620 @ 20°C	
SOLUBILITY IN WATER @ 20 °C	INSOLUBLE IN WATER	
9.2 OTHER INFORMATION	NO DATA	
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 OXIDISNING 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	
11.1 TOXICOLOGICAL EFFECTS	

ACUTE TOXICITY	NO DATA
Skin irritation	Skin Corrosion / Irritation Category 2
EYE DAMAGE OR IRRITATION	Eye Damage / Irritation Category 1
RESPIRATORY OR SKIN SENSITIVITY	Sensitization - Skin Category 1
GERM CELL MUTAGENICITY	NO DATA
CARCINOGENICITY	NO DATA
REPRODUCTIVE TOXICITY	NOT APPLICABLE.
STOT – SINGLE EXPOSURE	NOT APPLICABLE.
STOT – REPEATED EXPOSURE	NOT APPLICABLE.
ASPIRATION HAZARD	ASPIRATION HAZARD CATEGORY 1
OTHER INFORMATION	NO DATA.
SECTION 12: ECOLOGICAL INFORMATION	
TOXICITY	NO DATA
12.2 PERSISTENCE & DEGRADABILITY	NO DATA
12.3 BIO- ACCUMULATIVE POTENTIAL	NO DATA
12.4 MOBILITY IN SOIL	NO DATA.
12.5 RESULTS OF PBT & VPVB ASSESSMENT	NO DATA.
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	
	ROAD: 3082
UN Number	RAIL: 3082
	AIR: 3082
14.2 UN SHIPPING NAME	Environmentally Hazardous Substance, liquid n.o.s.
	ADR/RID/ADN CLASS 9 IMDG CLASS 9 ICAO CLASS/DIVISION 9
14.3 TRANSPORT HAZARD CLASS(ES)	

14.4 PACKING GROUP	ADR/RID/ADN PACKING GROUP III IMDG PACKING GROUP III ICAO PACKING GROUP	
14.5 Enviromental Hazards	ENVIRONMENTALLY HAZARDOUS SUBSTANCE/MARINE POLLUTANT.	
14.6 SPECIAL PRECAUTIONS FOR USER	EMS F-A, S-F ADR TRANSPORT CATEGORY 3 EMERGENCY ACTION CODE •3Z HAZARD IDENTIFICATION NUMBER (ADR/RID) 90 TUNNEL RESTRICTION CODE (E)	
14.7 TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL73/78 & THE IBC CODE.	NO DATA.	
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 <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).	
STATUTORY INSTRUMENTS	THE CHEMICALS (HAZARD INFORMATION & PACKAGING FOR SUPPLY REGULATIONS 2009 (S.I.2009	
Approved Code of Practice	NO 716).  CLASSIFICATION & LABELLING OF SUBSTANCES & PREPARATIONS DANGEROUS FOR SUPPLY. SAFETY DATA  SHEETS FOR SUBSTANCES & PREPARATIONS.	
GUIDANCE NOTES		
15.2 CHEMICAL SAFETY ASSESSMENT	-	

	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.
Hazard and/ or Precautionary Statements in full	H318 CAUSES SERIOUS EYE DAMAGE.
	H319 CAUSES SERIOUS EYE IRRITATION.
	H400 VERY TOXIC TO AQUATIC LIFE.
	H410 VERY TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS.
	H411 TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS.
	H412 HARMFUL TO AQUATIC LIFE WITH LONG LASTING EFFECTS.



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
ADK	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>™</sup> April 2018	Data Launch	
2021	Review	
JANUARY 2023	REVIEW	



### **SPECIFICATION SHEET**

PRODUCT NAME: PETITGRAIN, ESSENTIAL OIL

PRODUCT INCI: CITRUS AURANTIUM AMARA LEAF/TWIG OIL

PRODUCT CODE: OEPETI

CAS NUMBER: 68916-04-1 / 72968-50-4

EINECS NUMBER: 277-143-2

MANUFACTURING METHOD: STEAM DISTILLED

SHELF LIFE / BEST BEFORE: 24 MONTHS

ANALYTICAL DETAILS	RANGE
Appearance	LIQUID
Colour	COLORLESS - LIGHT YELLOW
Odour	CHARACTERISTIC
SPECIFIC GRAVITY @ 20°C	0.881 - 0.911
REFRACTIVE INDEX @ 20°C	1.4550 – 1.4620
OPTICAL ROTATION (°C)	-4.5 TO +1.0

#### **STORAGE CONDITIONS**

STORE IN A COOL DRY PLACE AWAY FROM HEAT & SUNLIGHT

**DOCUMENTATION REVIEW DATE:** 

2021



## **CERTIFICATE OF ANALYSIS**

PRODUCT NAME: PETITGRAIN, ESSENTIAL OIL

**BATCH NUMBER:** 

PRODUCT INCI: CITRUS AURANTIUM AMARA (BITTER ORANGE) LEAF OIL

PRODUCT CODE: OEPETI

CAS NUMBER: 689-04-1 / 72968-50-4

**EINECS NUMBER: 277-143-2** 

MANUFACTURING METHOD: STEAM DISTILLED

BEST BEFORE DATE:

ANALYTICAL DETAILS	RANGE	RESULTS
Appearance	LIQUID	-
Colour	Pale Yellow - Brown	-
Odour	CHARACTERISTIC	-
Specific Gravity @ 20°C	0.882 – 0.893	
REFRACTIVE INDEX @ 20°C	1.450 – 1.465	
OPTICAL ROTATION (°C)	-7.0 то +1.0	

#### STORAGE CONDITIONS

STORE IN A COOL DRY PLACE AWAY FROM HEAT & SUNLIGHT



### **Vegetarian & Vegan Suitability Statement**

PRODUCT NAME: Petitgrain Essential Oil

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

19/04/23