



## CERTIFICATE OF ANALYSIS

**PRODUCT NAME: PETITGRAIN, ESSENTIAL OIL ORGANIC**

**LOT NUMBER: 4367107**

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

**PRODUCT CODE: OCPETI**

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

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

**BEST BEFORE END: July 2022**

ANALYTICAL DETAILS	RANGE	RESULTS
APPEARANCE	LIQUID	-
COLOUR	PALE YELLOW - BROWN	-
ODOUR	CHARACTERISTIC	-
SPECIFIC GRAVITY @ 20°C	0.882 – 0.893	0.8909
REFRACTIVE INDEX @ 20°C	1.450 – 1.465	1.4598
OPTICAL ROTATION (°C)	-7.0 TO +1.0	- 3.98

### STORAGE CONDITIONS

STORE IN A COOL DRY PLACE AWAY FROM HEAT & SUNLIGHT



## Allergen Declaration:

<b>PRODUCT NAME:</b>	Petitgrain, Essential Oil Organic			
<b>INCI:</b>	Citrus Aurantium Amara (Bitter Orange) Leaf			
<b>COSMETIC ALLERGENS</b>				
<small>The Following is from the 7th amendment of the cosmetic directive of the European Union Annex III.</small>				
<b>Annex IIIa Reference:</b>		<b>CAS NUMBER:</b>	<b>TOTAL ALLERGEN INCLUSION (%):</b>	
67	AMYL CINNAMAL	122-40-7	0.00	
68	BENZYL ALCOHOL	100-51-6	0.00	
69	CINNAMYL ALCOHOL	104-54-1	0.00	
70	CITRAL	5392-40-5	1.00	
71	EUGENOL	97-53-0	0.00	
72	HYDROXY-CITRONELLAL	107-75-5	0.00	
73	ISOEUGENOL	97-54-1	0.00	
74	AMYLICIN-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	4.00	
79	HYDROXY- METHYLPENTYL CYCLOHEXENE CARBOXYALDEHYDE	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	30.00	
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	1.50	
89	METHYL HEPTIN CARBONATE	111-12-6	0.00	
90	ALPHA-ISOMETHYL IONONE	127-51-5	0.00	
91	EVERNIA PRUNASTRI EXTRACT	90028-68-5	0.00	
92	EVERNIA FURFURACEA EXTRACT	90028-67-4	0.00	
<b>FOOD ALLERGENS</b>				
<small>The following is from the commission directive 2007/68/EC of 27th November 2007 amending Annex IIIa to Directive 200/13/EC of the European Parliament &amp; Council with regards to specific food ingredients.</small>				
<b>Annex IIIa Reference:</b>		<b>PRESENT IN PRODUCT:</b>	<b>CONTAMINATION PRESENCE:</b>	<b>FACTORY PRESENCE:</b>
1	CEREALS ( CONTAINING GLUTEN )	NO	NO	YES
2	CRUSTACEANS	NO	NO	NO
3	EGGS	NO	NO	NO
4	FISH	NO	NO	NO
5	PEANUTS	NO	NO	YES
6	SOYA	NO	NO	YES
7	MILK	NO	NO	YES
8	NUTS	NO	NO	YES
9	CELERY & CELERIAC	NO	NO	NO
10	MUSTARD	NO	NO	YES
11	SESAME	NO	NO	YES
12	SULPHUR DIOXIDE & SULPHITES	NO	NO	NO
13	LUPIN	NO	NO	NO
14	MOLLUSC	NO	NO	NO



## **GMO Statement**

PRODUCT NAME: Petitgrain Organic

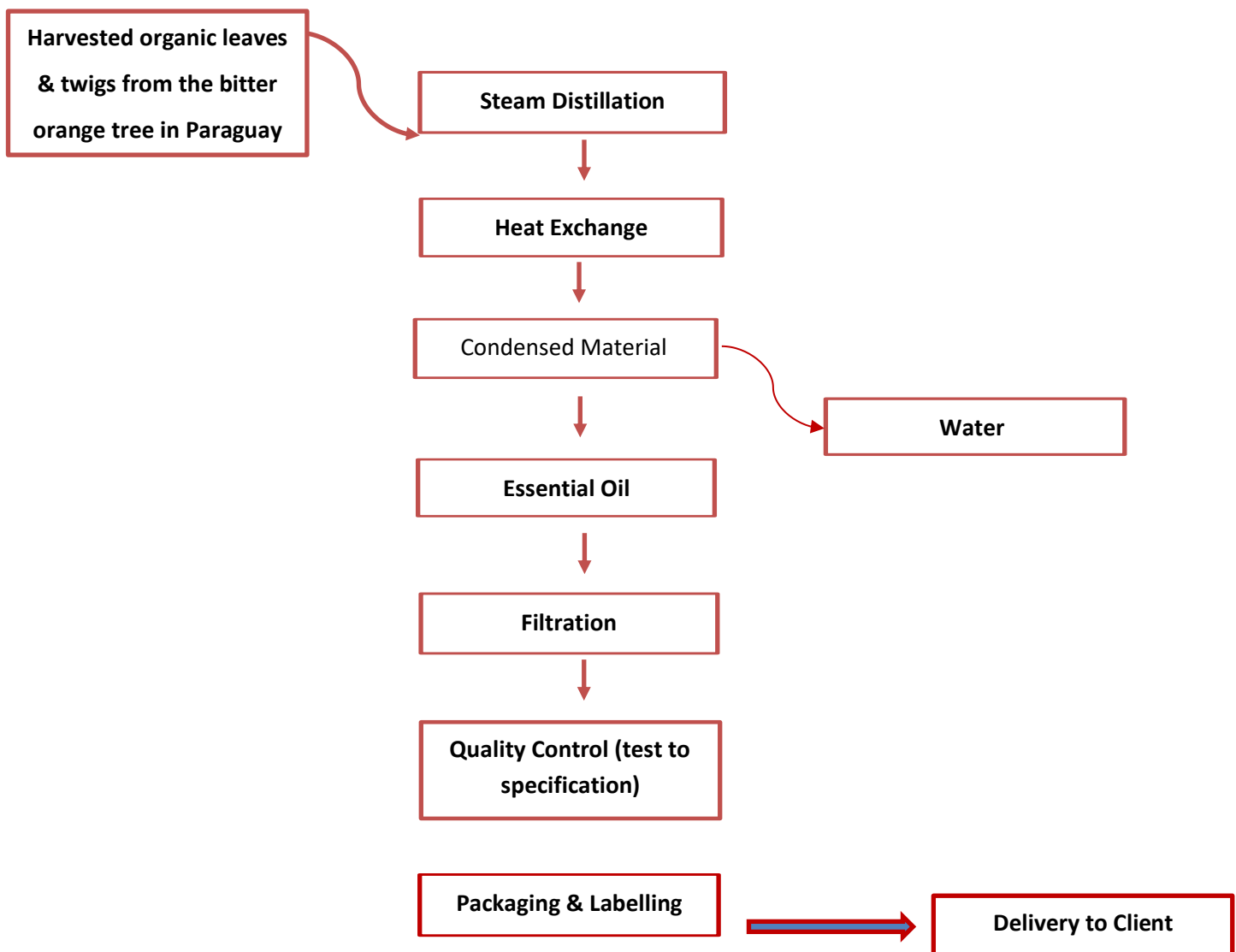
MADAR Corporation Limited can confirm that the above listed product is GMO Free.

06/03/2019



**Composition Statement & Manufacturing Flow Chart**  
**Petitgrain, Essential Oil Organic**

INCI Name	% Inclusion	CAS Number
Citrus Aurantium Amara (Bitter Orange) Leaf	100	689-04-1 / 72968-50-4





## IFRA STATEMENT

**PRODUCT NAME: PETITGRAIN, ESSENTIAL OIL ORGANIC**

PRODUCT INCI: CITRUS AURANTIUM AMARA (BITTER ORANGE) LEAF

PRODUCT CODE: OCPETI

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

EINECS NUMBER: 277-143-2

MANUFACTURING METHOD: STEAM DISTILLED

SHELF LIFE / BEST BEFORE: 24 MONTHS

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
Linalool	78-70-6	15.0 – 30.0	Specification Std
Limonene	5989-27-5	< 2.5	Specification Std
Geraniol	106-24-1	< 4.5	Restriction Stds (QRA cat.)
Citral	5392-40-5	< 1.0	Restriction Stds (QRA cat.)

IFRA Classes	% Maximum Use Level
<b>Class 1</b>	4.0
<b>Class 2</b>	5.0
<b>Class 3A</b>	20.0
<b>Class 3B</b>	20.0
<b>Class 3C</b>	20.0
<b>Class 3D</b>	20.0
<b>Class 4A</b>	60.0
<b>Class 4B</b>	60.0
<b>Class 4C</b>	60.0
<b>Class 4D</b>	60.0
<b>Class 5</b>	30.0



<b>Class 6</b>	Not Restricted.
<b>Class 7A</b>	10.0
<b>Class 7B</b>	10.0
<b>Class 8A</b>	44.44
<b>Class 8B</b>	44.44
<b>Class 9A</b>	Not Restricted.
<b>Class 9B</b>	Not Restricted.
<b>Class 9C</b>	Not Restricted.
<b>Class 10A</b>	55.56
<b>Class 10B</b>	55.56
<b>Class 11</b>	Not Restricted.

Finished product types	IFRA class
Toys; Lip Products of all types (solid and liquid lipsticks, balms, clear or colored etc...)	Class 1
Deodorant and Antiperspirant products of all types (spray, stick, roll-on, under-arm and body etc...)	Class 2
Hydroalcoholic products applied to recently shaved skin (EdT range)	Class 3.A
Hydroalcoholic products applied to recently shaved skin (fine fragrance range)	Class 3.B
Eye Products of all types (eye shadow, mascara, eyeliner, eye make-up, etc...) including eye cream. Men's Facial Creams and Balms	Class 3.C
Tampons.	Class 3.D
Hydroalcoholic Products applied to unshaved skin (EdT range). Ingredients of Perfume Kits. Scent Strips for Hydroalcoholic Products, "scratch and sniff", other paper products not mentioned elsewhere for which skin exposure is only incidental (e.g. spectacle cleaning tissues).	Class 4.A
Hydroalcoholic Products applied to unshaved skin (Fine Fragrance range).	Class 4.B
Hair Styling Aids and Hair Sprays of all types (pumps, aerosol sprays, etc...); Hair Deodorant. Body Creams, Oils, Lotions of all types (including baby creams, lotions, oils). Fragrance Compounds for Cosmetic Kits, Foot Care Products	Class 4.C
Fragrancing Cream	Class 4.D
Women's Facial Creams/Facial Make-up (excluding eye cream); Facial Masks; Hand Cream Wipes or refreshing tissues for Face, Neck, Hands, Body.	Class 5
Mouthwash, Toothpaste.	Class 6
Intimate Wipes; Baby Wipes.	Class 7 A
Insect Repellent (intended to be applied to the skin).	Class 7 B
Make-up Removers of all types (not including face cleansers). Hair Styling Aids Non-Spray of all types (mousse, gels, leave-in conditioners etc...). Nail Care. All Powders & Talcs (including baby powders and talcs).	Class 8
Liquid Soap, Bar Soap (toilet soap); Depilatory; Conditioner (rinse-off), Shampoos of all types (including baby shampoos).Face Cleansers of all types (washes, gels, scrubs, etc...).Shaving Creams of all types (stick, gels, foams, etc...).Body Washes of all types (including baby washes).Shower Gels of all types; Bath Gels, Foams, Mousses, Salts, Oils and other products added to bathwater	Class 9.A
Feminine hygiene pads / liners.	Class 9.B
'Other' Aerosols (including air fresheners sprays but not including deodorant/antiperspirants, hair styling aids spray).	Class 9.C



Hand wash/Machine wash Laundry Detergents of all types (liquid, powder, tablet, etc...) including Laundry Bleaches. Other Household Cleaning Products (fabric cleaners, soft surface cleaners, carpet cleaners etc...) . Dry Cleaning Kits. Fabric Softeners of all types including fabric softener sheets. Hand Dishwashing Detergent. Hard Surface Cleaners of all types (bathroom and kitchen cleansers, furniture polish etc...). Shampoos for pets	Class 10.A
Diapers. Toilet seat wipes.	Class 10.B
All non-skin contact, including: Air Fresheners and fragrancing of all types (excluding aerosol products): plug-ins, solid substrate, membrane delivery; Toilet blocks; Joss Sticks, Incense; Insecticides (mosquito coil, paper, electrical, etc...excluding aerosols); Plastic articles (excluding toys); Candles; Fuels; Paints; Floor wax; Liquid refills for air fresheners (cartridge system)	Class 11.A
All incidental skin contact, including: Machine Dish wash Detergents and Deodorizers. Machine only Laundry Detergents (e.g. 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

<b>1.1 PRODUCT IDENTIFICATION</b>					
<b>PRODUCT NAME</b>	PETITGRAIN, ESSENTIAL ORGANIC				
<b>BIOLOGICAL DEFINITION</b>	THE VOLATILE OIL OBTAINED BY STEAM DISTILLATION OF THE BRANCHES, TWIGS AND LEAVES OF AN ACCLIMATISED VARIETY OF THE BITTER ORANGE TREE CITRUS AURANTIUM L. SUBSP. AURANTIUM				
<b>INCI NAME</b>	CITRUS AURANTIUM AMARA (BITTER ORANGE) LEAF				
<b>SYNONYMS &amp; TRADE NAMES</b>	-				
<b>INTERNAL PRODUCT CODE</b>	OCPETI				
<b>CAS-No</b>	689-04-1 / 72968-50-4	<b>EC No.</b>	277-143-2	<b>EINECS No.</b>	277-143-2
<b>1.2 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET</b>					
<b>COMPANY ADDRESS</b>	MADAR Corporation Limited 19-20 Sandleheath Industrial Estate, Fordingbridge, Hampshire, SP6 1PA. United Kingdom				
<b>EMAIL</b>	sales@madarcorporation.co.uk				
<b>1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET</b>					
<b>EMERGENCY CONTACTS</b>	01425 655555 during office hours				



<b>SECTION 2: HAZARDS IDENTIFICATION</b>	
<b>2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE</b>	THE FULL TEXT FOR ALL HAZARD STATEMENTS IS DISPLAYED IN SECTION 16.
<b>CLASSIFICATION (67/548/EEC)</b>	THE FULL TEXT FOR ALL R-PHRASES AND HAZARD STATEMENTS ARE DISPLAYED IN SECTION 16.
<b>CLASSIFICATION (EU1272/2008)</b>	PHYSICAL AND CHEMICAL HAZARDS NOT CLASSIFIED. HUMAN HEALTH HAZARDS SKIN IRRIT. 2 - H315; EYE DAM. 1 - H318; SKIN SENS. 1 - H317, ASP. TOX. 1 - H304 ENVIRONMENTAL HAZARDS AQUATIC CHRONIC 2 - H411.
<b>2.2 LABEL ELEMENTS</b>	LABEL IN ACCORDANCE WITH REGULATION (EC) NO 1272/2008.
<b>GHS LABEL</b>	    GHS07                      GHS08                      GHS09                      GHS05
<b>SIGNAL WORD</b>	DANGER.
<b>CONTAINS</b>	GERANYL ACETATE, GERANIOL, BETA PINENE, NEROL, (S)-P-MENTHA-1,8-DIENE, A TERPINOLENE, ALPHA PINENE
<b>HAZARDS STATEMENT</b>	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.
<b>PRECAUTIONARY STATEMENTS</b>	P280 WEAR PROTECTIVE GLOVES/ PROTECTIVE CLOTHING/ EYE PROTECTION/ FACE PROTECTION. P301+P310 IF SWALLOWED: IMMEDIATELY CALL A POISON CENTER/ DOCTOR. P305+P351+P338 IF IN EYES: RINSE CAUTIOUSLY WITH WATER FOR SEVERAL MINUTES. REMOVE CONTACT LENSES, IF PRESENT AND EASY TO DO. CONTINUE RINSING. P391 COLLECT SPILLAGE. P501 DISPOSE OF CONTENTS/ CONTAINER IN ACCORDANCE WITH NATIONAL REGULATIONS. P262 DO NOT GET IN EYES, ON SKIN, OR ON CLOTHING.
<b>SUPPLEMENTARY PRECAUTIONARY STATEMENTS</b>	P261 AVOID BREATHING VAPOUR/ SPRAY. P264 WASH CONTAMINATED SKIN THOROUGHLY AFTER HANDLING. P272 CONTAMINATED WORK CLOTHING SHOULD NOT BE ALLOWED OUT OF THE WORKPLACE. P273 AVOID RELEASE TO THE ENVIRONMENT. P302+P352 IF ON SKIN: WASH WITH PLENTY OF WATER. P321 SPECIFIC TREATMENT (SEE MEDICAL ADVICE ON THIS LABEL). P331 DO NOT INDUCE VOMITING. P332+P313 IF SKIN IRRITATION OCCURS: GET MEDICAL ADVICE/ ATTENTION. P333+P313 IF SKIN IRRITATION OR RASH OCCURS: GET MEDICAL ADVICE/ ATTENTION. P362+P364 TAKE OFF CONTAMINATED CLOTHING AND WASH IT BEFORE REUSE. P405 STORE LOCKED UP.
SECTION 16 (OTHER INFORMATION): RISK & SAFETY PHRASES IN FULL.	
<b>2.3 OTHER HAZARDS</b>	
<b>ADVERSE PHYSIO-CHEMICAL PROPERTIES</b>	NO DATA
<b>ADVERSE EFFECTS ON HUMAN HEALTH</b>	MAY BE HARMFUL IN CONTACT WITH SKIN.
<b>PBT OR vPVB ACCORDING TO ANNEX XIII</b>	NO DATA.
<b>SECTION 3: COMPOSITION OF INGREDIENTS</b>	
<b>3.2 MIXTURES</b>	46 - 55% LINALYL ACETATE                      CAS: 115-95-7                      EC: 204-116-4 CLASSIFICATION (EC 1272/2008)                      SKIN IRRIT. 2 - H315; EYE IRRIT. 2 - H319



20 - 26% LINALOOL CLASSIFICATION (EC 1272/2008)	CAS: 78-70-6 SKIN IRRIT. 2 - H315; EYE IRRIT. 2 - H319	EC: 201-134-4
4 - 8% A-TERPINEOL (P-MENTH-1-EN-8-OL) CLASSIFICATION (EC 1272/2008)	CAS: 98-55-5 SKIN IRRIT. 2 - H315, EYE IRRIT. 2 - H319	EC: 202-680-6
2 - 5% GERANYL ACETATE CLASSIFICATION (EC 1272/2008)	CAS: 105-87-3 SKIN IRRIT. 2 - H315, SKIN SENS. 1B - H317, AQUATIC CHRONIC 3 - H412	EC: 203-341-5
0.01 – 4.5% GERANIOL CLASSIFICATION (EC 1272/2008)	CAS: 106-24-1 SKIN IRRIT. 2 - H315, EYE DAM. 1 - H318, SKIN SENS. 1 - H317	EC: 203-377-1
2 – 4.5% TRANS BETA OCIMENE CLASSIFICATION (EC 1272/2008)	CAS: 3779-61-1 NOT CLASSIFIED.	EC: 223-241-5
0.01 – 3.5% NERYL ACETATE CLASSIFICATION (EC 1272/2008)	CAS: 123-35-3 NOT CLASSIFIED.	EC: 204-622-5
0.01 - 4% MYRCENE (7-METHYL-3-METHYLENEOCTA-1,6-DIENE) CLASSIFICATION (EC 1272/2008)	CAS: 123-35-3 FLAM. LIQ. 3 - H226, SKIN IRRIT. 2 - H315, EYE IRRIT. 2 - H319, ASP. TOX. 1 - H304	EC: 204-622-5
0.01 - 3% NEROL CLASSIFICATION (EC 1272/2008)	CAS: 106-25-2 SKIN IRRIT. 2 - H315, SKIN SENS. 1 - H317, EYE IRRIT. 2 - H319	EC: 203-378-7
0.01 - 2% BETA-PINENE CLASSIFICATION (EC 1272/2008)	CAS: 127-91-3 M FACTOR (ACUTE) = 1 M FACTOR (CHRONIC) = 1 FLAM. LIQ. 3 - H226, ASP. TOX. 1 - H304, SKIN IRRIT. 2 - H315, SKIN SENS. 1 - H317 AQUATIC ACUTE 1 - H400, AQUATIC CHRONIC 1 - H410	EC: 204-872-5
0.01 – 2.5% (S)-P-MENTHA-1,8-DIENE CLASSIFICATION (EC 1272/2008)	CAS: 5989-54-8 M FACTOR (ACUTE) = 1 M FACTOR (CHRONIC) = 1 FLAM. LIQ. 3 - H226, SKIN IRRIT. 2 - H315, SKIN SENS. 1 - H317 AQUATIC ACUTE 1 - H400, AQUATIC CHRONIC 1 - H410	EC: 227-815-6
0.01 – 1.5% A-TERPINOLENE CLASSIFICATION (EC 1272/2008)	CAS: 586-62-9 M FACTOR (ACUTE) = 1 M FACTOR (CHRONIC) = 1 SKIN SENS. 1 - H317, ASP. TOX. 1 - H304, AQUATIC ACUTE 1 - H400 AQUATIC CHRONIC 1 - H410	EC: 209-578-0
0.01 - 1% ALPHA-PINENE CLASSIFICATION (EC 1272/2008)	CAS: 80-56-8 M FACTOR (ACUTE) = 1 M FACTOR (CHRONIC) = 1 FLAM. LIQ. 3 - H226, SKIN IRRIT. 2 - H315, SKIN SENS. 1 - H317, ASP. TOX. 1 - H304, AQUATIC ACUTE 1 - H400, AQUATIC CHRONIC 1 - H410	EC: 201-291-9

## SECTION 4: FIRST AID MEASURES

<b>4.1</b> <b>DESCRIPTION OF FIRST AID MEASURES</b>	
<b>GENERAL INFORMATION</b>	ALWAYS REMOVE CONTAMINATED CLOTHING IMMEDIATELY.
<b>INHALATION</b>	GET MEDICAL ATTENTION IMMEDIATELY. REMOVE FROM EXPOSURE SITE TO FRESH AIR, KEEP AT REST, AND OBTAIN MEDICAL ATTENTION.
<b>INGESTION</b>	GET MEDICAL ATTENTION IMMEDIATELY. RINSE MOUTH WITH WATER AND OBTAIN MEDICAL ATTENTION.
<b>SKIN CONTACT</b>	REMOVE CONTAMINATED CLOTHES. WASH THOROUGHLY WITH SOAP AND WATER. CONTACT PHYSICIAN IF IRRITATION PERSISTS.
<b>EYE CONTACT</b>	FLUSH IMMEDIATELY WITH WATER FOR AT LEAST 15 MINUTES. CONTACT PHYSICIAN IF SYMPTOMS PERSIST.
<b>4.2</b> <b>MOST IMPORTANT SYMPTOMS &amp; EFFECTS (ACUTE &amp; DELAYED)</b>	<p>INHALATION MAY CAUSE COUGHING AND DIFFICULTIES IN BREATHING.</p> <p>INGESTION IRRITATING TO THE RESPIRATORY TRACT AND MAY CAUSE DAMAGE TO THE CENTRAL NERVOUS SYSTEM.</p> <p>SKIN CONTACT TOXIC IN CONTACT WITH SKIN.</p> <p>EYE CONTACT MAY CAUSE EYE IRRITATION.</p>



<b>4.3</b> INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION OR SPECIAL TREATMENT REQUIRED	NONE EXPECTED, SEE SECTION 4.1 FOR FURTHER INFORMATION.
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## SECTION 5: FIRE FIGHTING MEASURES

<b>5.1</b> EXTINGUISHING MATERIAL	FOAM, CO2, DRY CHEMICAL POWDER.
<b>5.2</b> SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE	BURNING PRODUCES IRRITATING, TOXIC AND OBNOXIOUS FUMES
<b>5.3</b> 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 MEASURE

<b>6.1</b> 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.
<b>6.2</b> ENVIRONMENTAL PRECAUTIONS	DO NOT DISCHARGE INTO DRAINS, WATER COURSES OR ONTO THE GROUND. DISPOSE OF IN LINE WITH LOCAL AUTHORITY GUIDELINES.
<b>6.3</b> 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.
<b>6.4</b> REFERENCES TO OTHER SECTIONS	REFER & CONSIDER SECTION 8. REFER & CONSIDER SECTION 13.

## SECTION 7: HANDLING & STORAGE

<b>7.1</b> 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.
<b>7.2</b> 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.
<b>7.3</b> SPECIFIC END USE(S)	NO DATA.

## SECTION 8: EXPOSURE CONTROLS & PERSONAL PROTECTION

<b>8.1</b> CONTROL PARAMETERS	<p><b>LINALOOL (CAS: 78-70-6)</b></p> <p>DNEL</p> <p>WORKERS - DERMAL; SHORT TERM SYSTEMIC EFFECTS: 5 MG/KG</p> <p>WORKERS - INHALATION; SHORT TERM SYSTEMIC EFFECTS: 16.5 MG/M<sup>3</sup></p> <p>WORKERS - DERMAL; LONG TERM SYSTEMIC EFFECTS: 2.5 MG/KG</p> <p>WORKERS - INHALATION; LONG TERM SYSTEMIC EFFECTS: 2.8 MG/M<sup>3</sup></p> <p>GENERAL POPULATION - ORAL; SHORT TERM SYSTEMIC EFFECTS: 1.5 MG/KG</p> <p>GENERAL POPULATION - DERMAL; SHORT TERM SYSTEMIC EFFECTS: 2.5 MG/KG</p> <p>GENERAL POPULATION - INHALATION; SHORT TERM SYSTEMIC EFFECTS: 4.1 MG/M<sup>3</sup></p> <p>GENERAL POPULATION - ORAL; LONG TERM SYSTEMIC EFFECTS: 0.2 MG/KG</p> <p>GENERAL POPULATION - DERMAL; SHORT TERM SYSTEMIC EFFECTS: 1.25 MG/KG</p> <p>GENERAL POPULATION - INHALATION; SHORT TERM SYSTEMIC EFFECTS: 0.7 MG/M<sup>3</sup></p> <p>PNEC</p> <p>- STP; SHORT TERM 10 MG/L</p> <p>- SOIL; SHORT TERM 0.327 MG/KG</p> <p>- INTERMITTENT RELEASE; SHORT TERM 2 MG/L</p> <p>- FRESH WATER; SHORT TERM 0.2 MG/L</p> <p>- MARINE WATER; SHORT TERM 0.02 MG/L</p>
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- SEDIMENT (FRESHWATER); SHORT TERM 2.22 MG/KG  
 - SEDIMENT (MARINE WATER); SHORT TERM 0.222 MG/KG

**7-METHYL-3-METHYLENOCTA-1,6-DIENE (CAS: 123-35-3)**

DNEL  
 WORKERS - DERMAL; LONG TERM SYSTEMIC EFFECTS: 0.83 MG/KG  
 WORKERS - INHALATION; LONG TERM SYSTEMIC EFFECTS: 5.83 MG/M<sup>3</sup>  
 GENERAL POPULATION - DERMAL; LONG TERM SYSTEMIC EFFECTS: 0.42 MG/KG  
 GENERAL POPULATION - INHALATION; LONG TERM SYSTEMIC EFFECTS: 1.25 MG/M<sup>3</sup>  
 PNEC  
 - STP; 0.2 MG/L  
 - SOIL; 1.015 MG/KG  
 - FRESH WATER; 0.00028 MG/L  
 - MARINE WATER; 0.0008 MG/L  
 - SEDIMENT (FRESHWATER); 5.022 MG/KG  
 - SEDIMENT (MARINE WATER); 0.502 MG/KG

**ALPHA PINENE (CAS: 80-56-8)**

DNEL  
 WORKERS - INHALATION; LONG TERM SYSTEMIC EFFECTS: 5.98 MG/M<sup>3</sup>  
 GENERAL POPULATION - ORAL; LONG TERM SYSTEMIC EFFECTS: 0.31 MG/KG  
 GENERAL POPULATION - INHALATION; LONG TERM SYSTEMIC EFFECTS: 1.06 MG/M<sup>3</sup>  
 PNEC  
 - STP; 3.26 MG/L  
 - SOIL; 0.539 MG/KG  
 - FRESH WATER; 0.004 MG/L  
 - MARINE WATER; 0.0004 MG/L  
 - SEDIMENT (FRESHWATER); 1.033 MG/KG  
 - SEDIMENT (MARINE WATER); 0.103 MG/KG

**8.2 EXPOSURE CONTROLS**



<b>EYE PROTECTION</b>	WEAR PROTECTIVE GLOVES/EYE PROTECTION/FACE PROTECTION.
<b>HAND PROTECTION</b>	WEAR PROTECTIVE GLOVES/EYE PROTECTION/FACE PROTECTION.
<b>RESPIRATORY EQUIPMENT</b>	NO DATA
<b>HYGIENE MEASURES</b>	GOOD PERSONAL HYGIENE PRACTICES ARE ALWAYS ADVISABLE, ESPECIALLY WHEN WORKING WITH CHEMICALS / OILS.
<b>ENGINEERING MEASURES</b>	NONE.
<b>SKIN PROTECTION</b>	WEAR PROTECTIVE CLOTHING TO REDUCE THE RISK OF SKIN AND EYE CONTACT.
<b>PERSONAL PROTECTION</b>	AVOID INHALATION OF THE PRODUCT. AVOID CONTACT WITH SKIN AND EYES.
<b>OTHER PROTECTION</b>	WEAR SUITABLE PROTECTION TO AVOID CONTACT WITH SKIN AND EYES. DO NOT INHALE VAPOURS.
<b>PROCESS CONDITIONS</b>	ENSURE AREA IS WELL VENTILATED. AVOID VAPOUR INHALATION. SAFETY SHOWER & EYE BATH.
<b>ENVIROMENTAL EXPOSURE CONTROLS</b>	AVOID DISCHARGING INTO DRAINAGE WATER.

**SECTION 9: PHYSICAL & CHEMICAL PROPERTIES**

<b>9.1 PHYSICAL &amp; CHEMICAL PROPERTIES</b>	
<b>APPEARANCE</b>	CLEAR
<b>COLOUR</b>	YELLOW - BROWN
<b>ODOUR</b>	CHARACTERISTIC





<b>RELATIVE DENSITY</b>	0.888 @ 20°C
<b>FLASH POINT (°C)</b>	>74°C
<b>REFRACTIVE INDEX @ 20 °C</b>	1.457 @ 20°C
<b>SOLUBILITY IN WATER @ 20 °C</b>	INSOLUBLE IN WATER
<b>9.2 OTHER INFORMATION</b>	NO DATA
<b>SECTION 10: STABILITY &amp; REACTIVITY</b>	
<b>10.1 REACTIVITY</b>	NO HAZARDOUS REACTIONS IF STORED AND HANDLED AS PRESCRIBED / INDICATED.
<b>10.2 CHEMICAL STABILITY</b>	STABLE UNDER SUGGESTED STORAGE CONDITIONS (<15°C).
<b>10.3 POSSIBILITY OF HAZARDOUS REACTIONS</b>	NO.
<b>10.4 CONDITIONS TO AVOID</b>	STORAGE AT HIGH TEMPERATURES. DO NOT STORE ABOVE 15°C.
<b>10.5 INCOMPATIBLE MATERIALS</b>	STRONG OXIDISING SUBSTANCES.
<b>10.6 HAZARDOUS DECOMPOSITION PRODUCTS</b>	THIS PRODUCT DOES NOT DECOMPOSE UNDER NORMAL CONDITIONS. UNDER FIRE CONDITIONS THE PRODUCT WILL PRODUCE A MIXTURE OF IRRITATING FUMES & SMOKE & CARBON MONOXIDE.

<b>SECTION 11: TOXICOLOGICAL INFORMATION</b>	
<b>11.1 TOXICOLOGICAL EFFECTS</b>	
<b>ACUTE TOXICITY</b>	NO DATA
<b>SKIN IRRITATION</b>	NO DATA
<b>EYE DAMAGE OR IRRITATION</b>	CAUSES EYE DAMAGE
<b>RESPIRATORY OR SKIN SENSITIVITY</b>	NO DATA
<b>GERM CELL MUTAGENICITY</b>	NO DATA
<b>CARCINOGENICITY</b>	NO DATA
<b>REPRODUCTIVE TOXICITY</b>	NOT APPLICABLE.
<b>STOT – SINGLE EXPOSURE</b>	NOT APPLICABLE.
<b>STOT – REPEATED EXPOSURE</b>	NOT APPLICABLE.
<b>ASPIRATION HAZARD</b>	MAYBE FATAL IF SWALLOWED
<b>OTHER INFORMATION</b>	NO DATA.

<b>SECTION 12: ECOLOGICAL INFORMATION</b>	
<b>12.1 TOXICITY</b>	TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS.
<b>12.2 PERSISTENCE &amp; DEGRADABILITY</b>	NO DATA
<b>12.3 BIO- ACCUMULATIVE POTENTIAL</b>	NO DATA
<b>12.4 MOBILITY IN SOIL</b>	NO DATA.
<b>12.5 RESULTS OF PBT &amp; VPVB ASSESSMENT</b>	NO DATA.
<b>12.6 OTHER ADVERSE EFFECTS</b>	DO NOT ALLOW PRODUCT TO ENTER STREAMS, SEWERS OR OTHER WATERWAYS.

<b>SECTION 13: DISPOSAL INFORMATION</b>	
<b>13.1 WASTE TREATMENT METHODS</b>	ALWAYS RECOVER SPILLED PRODUCT. DISCARD WASTE MATERIAL WITH AUTHORIZED WASTE MANAGEMENT SERVICES. ACT IN ACCORDANCE WITH LOCAL & NATIONAL WASTE REGULATIONS.

<b>SECTION 14: TRANSPORT INFORMATION</b>	
<b>14.1 TRANSPORT INFORMATION</b>	
<b>UN NUMBER</b>	ROAD: 3082 RAIL: 3082 AIR: 3082
<b>14.2 UN SHIPPING NAME</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID N.O.S.
<b>14.3 TRANSPORT HAZARD CLASS(ES)</b>	ADR/RID/ADN CLASS 9 IMDG CLASS 9 ICAO CLASS/DIVISION 9 
<b>14.4 PACKING GROUP</b>	ADR/RID/ADN PACKING GROUP III IMDG PACKING GROUP III ICAO PACKING GROUP
<b>14.5 ENVIROMENTAL HAZARDS</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE/MARINE POLLUTANT. 
<b>14.6 SPECIAL PRECAUTIONS FOR USER</b>	EMS F-A, S-F ADR TRANSPORT CATEGORY 3 EMERGENCY ACTION CODE *3Z HAZARD IDENTIFICATION NUMBER (ADR/RID) 90 TUNNEL RESTRICTION CODE (E)
<b>14.7 TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL73/78 &amp; THE IBC CODE.</b>	NO DATA.
<b>SECTION 15: REGULATORY INFORMATION</b>	
<b>15.1 PRODUCT SPECIFIC SAFETY, HEALTH &amp; ENVIRONMENTAL REGULATIONS &amp; LEGISLATION</b>	
<b>EU DIRECTIVES</b>	REGULATION (EC) NO 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL OF 18 <sup>TH</sup>



	DECEMBER 2006. CONCERNING THE REGISTRATION, EVALUATION, AUTHORIZATION & RESTRICTION OF CHEMICALS (REACH), ESTABLISHING A EUROPEAN CHEMICALS AGENCY, AMENDING DIRECTIVE 1999/45/EC AND REPEALING COUNCIL REGULATION (EEC) No793/93 & COMMISSION REGULATION (EC) No1488/94 AS WELL AS COUNCIL DIRECTIVE 76/769/EEC & COMMISSION DIRECTIVE 91/155/ECC, 93/67/ECC, 93/105/EEC & 2000/21/EC (INCLUDING AMENDMENTS).
<b>STATUTORY INSTRUMENTS</b>	THE CHEMICALS (HAZARD INFORMATION & PACKAGING FOR SUPPLY REGULATIONS 2009 (S.I.2009 No 716).
<b>APPROVED CODE OF PRACTICE</b>	CLASSIFICATION & LABELLING OF SUBSTANCES & PREPARATIONS DANGEROUS FOR SUPPLY. SAFETY DATA SHEETS FOR SUBSTANCES & PREPARATIONS.
<b>GUIDANCE NOTES</b>	WORKPLACE EXPOSURE LIMITS EH40. CHIP FOR EVERYONE HSG 108.
<b>15.2 CHEMICAL SAFETY ASSESSMENT</b>	-

## 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. 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.
<b>TRAINING INSTRUCTIONS: REFER TO POSSIBLE HAZARD BEFORE USE OF THIS PRODUCT.</b>	
<b>ABBREVIATIONS &amp; ACRONYMS:</b>	
<b>MSDS</b>	MATERIAL SAFETY DATA SHEET.
<b>INCI</b>	INTERNATIONAL NOMENCLATURE OF COSMETIC INGREDIENTS.
<b>CAS</b>	CHEMICAL ABSTRACT SERVICE.
<b>IMDG</b>	INTERNATIONAL MARITIME CODE FOR DANGEROUS GOODS.
<b>ADR</b>	ACCORD EUROPEAN SUR LE TRANSPORT DES MARCHANDISES DANGEREUSES PAR ROUTE (EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY ROAD).
<b>RID</b>	INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY RAIL.
<b>ICAO</b>	INTERNATIONAL CIVIL AVIATION ORGANIZATION.
<b>ADN</b>	INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY INLAND WATERWAYS.
<b>GHS</b>	GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION & LABELLING OF CHEMICALS.
<b>TREM CARD</b>	TRANSPORT EMERGENCY CARD.
<b>STOT</b>	SPECIFIC TARGET ORGAN TOXICITY.

## DOCUMENTATION REVISION

DATE	CHANGE DESCRIPTION
10 <sup>th</sup> APRIL 2018	DATA LAUNCH



## SPECIFICATION SHEET

**PRODUCT NAME:** PETITGRAIN, ESSENTIAL OIL ORGANIC

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

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

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

**MANUFACTURING METHOD:** STEAM DISTILLED

**SHELF LIFE / BEST BEFORE:** 24 MONTHS

ANALYTICAL DETAILS	RANGE
APPEARANCE	LIQUID
COLOUR	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 TO +1.0

### STORAGE CONDITIONS

STORE IN A COOL DRY PLACE AWAY FROM HEAT & SUNLIGHT

### DOCUMENTATION REVIEW DATE:

24<sup>TH</sup> MAY 2018

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## **Vegetarian & Vegan Suitability Statement**

PRODUCT NAME: Petitgrain Organic

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.

28/06/19