



Certificate of Analysis

Product Name	Vetiver Essential Oil
Inci Name	Vetiveria Zizanoides Root Oil
EINECS Number	282-490-8
Cas Number	8016-96-4 / 84238-29-9
Batch Number	4353708
Best Before End	March 2022

Parameter	Result
Appearance	Light to dark brown, viscous liquid
Odour	Characteristic
Refractive Index	1.5174
Relative Density & Specific Gravity	0.9917



Allergen Statement

Product: Vetiver Oil

INCI Name: Vetiveria Zizanoides Root Oil

Cosmetic Allergens

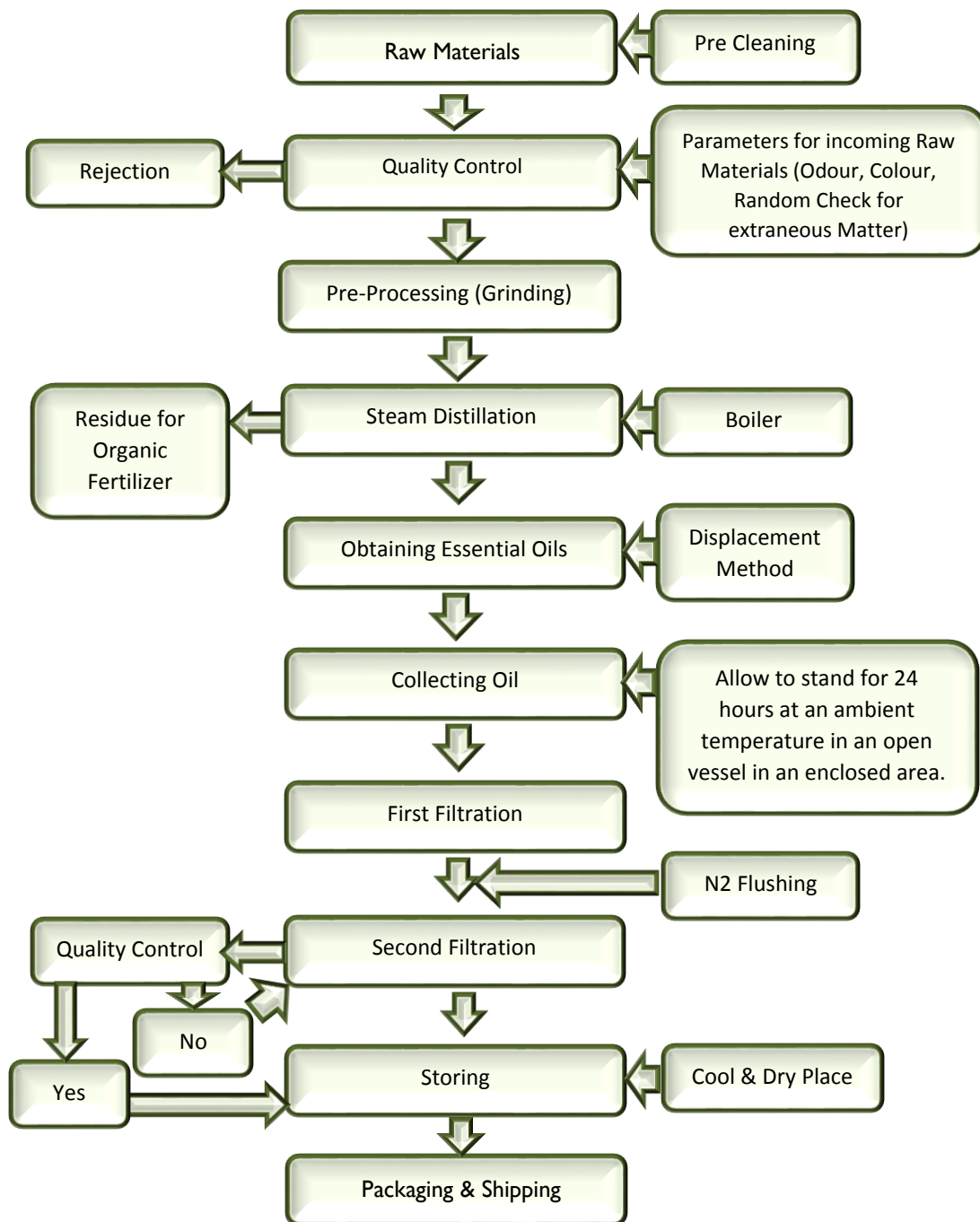
From The 7th Amendment to the Cosmetic Directive of the European Union (EU) – Annex III 26
Fragrance Allergens

<u>Annex III Ref:</u>	<u>Material:</u>	<u>CAS No:</u>	<u>Total Allergen Inclusion Level (%)</u>
67	AMYL CINNAMAL	122-40-7	0
68	BENZYL ALCOHOL	100-51-6	0
69	CINNAMYL ALCOHOL	104-54-1	0
70	CITRAL	5392-40-5	0
71	EUGENOL	97-53-0	0
72	HYDROXY-CITRONELLAL	107-75-5	0
73	ISOEUGENOL	97-54-1	0
74	AMYL CINNAMYL ALCOHOL	101-85-9	0
75	BENZYL SALICYLATE	118-58-1	0
76	CINNAMAL	104-55-2	0
77	COUMARIN	91-64-5	0
78	GERANIOL	106-24-1	0
79	HYDROXY-METHYLPENTYL CYCLOHEXENECARBOXALDEHYDE	31906-04-4	0
80	ANISE ALCOHOL	105-13-5	0
81	BENZYL CINNAMATE	103-41-3	0
82	FARNESOL	4602-84-0	0
83	BUTYLPHENYL METHYLPROPIONAL	80-54-6	0
84	LINALOOL	78-70-6	0
85	BENZYL BENZOATE	120-51-4	0
86	CITRONELLOL	106-22-9	0
87	HEXYL CINNAM-ALDEHYDE	101-86-0	0
88	LIMONENE	5989-27-5	0
89	METHYL HEPTIN CARBONATE	111-12-6	0
90	ALPHA-ISOMETHYL IONONE	127-51-5	0
91	EVERNIA PRUNASTRI EXTRACT	90028-68-5	0
92	EVERNIA FURFURACEA EXTRACT	90028-67-4	0



Vetiver Essential Oil

Manufacturing Flow Chart





IFRA Conformity

Product Name	Vetivert Essential Oil
INCI	Vetiveria Zizanoides Root Oil
CAS Number	8016-96-4 / 84238-29-9
EINECS Number	282-490-8

Document Version: 2

Revision Date: 17/09/2018

Product Statement

We certify that the above named material contains the following restricted components listed in the 48th Amendment of the INTERNATIONAL FRAGRANCE ASSOCIATION (IFRA) Code of practice.

Restricted Component:	% Level in Product
Khusimol	12 – 18%
Isovalencol	6 – 14%
Beta Vetivenene	3 – 6%
Alpha Vetivone	3 – 6%
Beta Vetivone	2 – 5%
Beta Caryophyllene	0 – 5%

IFRA CLASSES	% MAXIMUM USE LEVEL
Category 1	0.210
Category 2	0.240
Category 3	1.050
Category 4	3.120
Category 5	1.650
Category 6	1.650
Category 7	0.510
Category 8	2.000
Category 9	5.000
Category 10	2.500
Category 11	Not Restricted

Finished product types	IFRA class
Toys; Lip Products of all types (solid and liquid lipsticks, balms, clear or colored etc...)	Class 1
Deodorant and Antiperspirant products of all types (spray, stick, roll-on, under-arm and body etc...)	Class 2
Hydroalcoholic products applied to recently shaved skin (EdT range)	Class 3.A
Hydroalcoholic products applied to recently shaved skin (fine fragrance range)	Class 3.B
Eye Products of all types (eye shadow, mascara, eyeliner, eye make-up, etc...) including eye cream. Men's Facial Creams and Balms	Class 3.C
Tampons.	Class 3.D
Hydroalcoholic Products applied to unshaved skin (EdT range). Ingredients of Perfume Kits. Scent Strips for Hydroalcoholic Products, "scratch and sniff", other paper products not mentioned elsewhere for which skin exposure is only incidental (e.g. spectacle cleaning tissues).	Class 4.A
Hydroalcoholic Products applied to unshaved skin (Fine Fragrance range).	Class 4.B

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IFRA Conformity

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

It is the ultimate responsibility of the customer to ensure the safety of the intended final product containing this material, by carrying out additional tests if necessary.

DISCLAIMER: This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.

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Material Safety Data Sheet

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product Identifier

Product Name	Vetivert Essential Oil				
Biological Definition	Vetiveria Zizanoides Root Oil is an extract obtained from the roots of the Vetivert, Vetiveria Zizanoides, Poaceae				
INCI Name	Vetiveria Zizanoides Root Oil				
Synonyms & Trade Names	Vetiver Oil, Vetivert Oil, khas-khas grass oil				
Internal Product Code	OEVETI				
CAS-No	8016-96-4 / 84238-29-9	EC No.	-	EINECS No.	282-490-8

1.2 Details of the supplier of the safety data sheet

Company Identification	Madar Corporation 19-20 Sandleheath Industrial Estate, SP6 1PA, UK Tel: 01425 655555 Email: technical@madarcorporation.co.uk
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SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (67/548/EEC)	Oil is classed as non-hazardous and sometimes not classified.
Classification (EU 1272/2008)	H315 - Skin Irritation (Cat 2) H317 - Skin Sensitivity (Cat. 1) H319 - Eye Irritation (Cat. 2) R36 – Irritating to eyes R38 - Irritating to skin R43 – May cause sensitisation by skin contact

2.2 Label elements

Label in accordance with Regulation (EC) No 1272/2008

GHS Label:	 GHS07
Signal word:	Warning
Contains	Vetiverol
Hazard Statements:	H315 Causes skin irritation H317 May cause an allergic skin reaction H319 Causes serious eye irritation
Precautionary Statements:	P233: Keep container tightly closed P261: Avoid breathing vapour/spray P264: Wash hands thoroughly after handling P280: Wear protective gloves/clothing/eye-protection/face protection P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
Supplementary Precautionary Statements:	P233: Keep container tightly closed P261: Avoid breathing vapour/spray P264: Wash hands thoroughly after handling P280: Wear protective gloves/clothing/eye-protection/face protection P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

Risk phrases and Safety phrases in full refer to *Section 16 – Other Information*

2.3 Other hazards

Adverse physio-chemical properties	No data available
Adverse effects on human health	No data available

SECTION 3: Composition/information on ingredients

3.1 Substances

Chemical Identify of Ingredients.

7 – 16%: Khusimol: CAS 16223-63-5: Not listed

2.5 – 6%: Beta-Vetivenene: CAS 27840-40-0: Not listed

1.5 – 6%: Alpha-Vetivone: Not listed

3.2 Mixtures

This is a natural substance. The substance has a natural variability in its composition and has not been rectified by the producer. It is obtained by steam distillation of roots of botanical grass *Vetiveria Zizaniodes*.

SECTION 4: First aid measures

4.1 Description of first aid measures

General Information	See categories below
Inhalation	Remove to fresh air.
Ingestion	Do not induce vomiting. Give a glass of water. See a doctor immediately.
Skin Contact	Wash well with water.
Eye Contact	Flush eyes with water for 15 minutes. If irritation persists see a doctor..

4.2 Most important symptoms and effects, both acute and delayed

No additional data available.

4.3 Indication of any immediate medical attention and special treatment needed

No additional data available.

SECTION 5: Fire fighting measures

5.1 Extinguishing Media

Use foam, dry powder, carbon dioxide or vaporising liquids

5.2 Special hazards arising from the substance or mixture.

May produce fumes of carbon monoxide and carbon dioxide. Moderate explosion hazard when exposed to flame.

5.3 Advice for fire-fighters

Containers close to fire should be removed or cooled with water. Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

SECTION 6: Accidental release measures

6.1 Personal precautions

Wear appropriate protective clothing. Shut off all sources of ignition.

6.2 Environmental precautions

Do not discharge into drains, water courses or onto ground.

6.3 Methods and material for containment and cleaning up

For small spills, wash area with detergent and water.

For large spills, contain with earth, sand or similar inert absorbent material and both liquids and solids transferred to salvage containers and arrange disposal by disposal company. Wash spilled area thoroughly with water and detergent.

6.4 References to other sections.

Please refer to *Section 8 - Exposure controls/personal protection* for further information on personal precautions

Please refer to *Section 13 - Disposal Considerations* for further information on waste treatment.

SECTION 7: Handling and Storage

7.1 Precautions for safe handling

Avoid spilling, eye and skin contact. Use only in a well-ventilated area. Wash area well with hot water and detergent.

7.2 Conditions for safe storage, including any incompatibilities

Must be stored and transported in accordance with local regulations. Store in tightly closed container in a dry, cool and well ventilated place. Protect from freezing and direct sunlight.

7.3 Specific end use(s)



No additional data available.

SECTION 8: Exposure controls/personal protection

8.1 Control Parameters

Not determined.

8.2 Exposure Controls

Eye protection		Use safety goggles.
Hand protection		Avoid all skin contact. Use chemically resistant gloves.
Respiratory Equipment	None required when used in well-ventilated area. Use approved half face respirator if using undiluted in confined spaces.	
Hygiene Measures	Wash hands with soap & water after handling.	
Engineering Measures	Ensure good ventilation of working area.	

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	Viscous liquid
Colour	Light to dark brown
Odour	Characteristic
Relative Density	0.977 to 1.012 @ 20°C
Flash Point (°C)	N/A
Refractive Index	1.500 to 1.530 @ 20°C
Melting Point (°C)	N/A
Boiling Point (°C)	N/A
Vapour Pressure	N/A
Solubility in Water @20°C	N/A
Auto-ignition temperature (°C)	N/A

9.2 Other information

N/A



SECTION 10: Stability and reactivity

10.1 Reactivity

No additional data available.

10.2 Chemical stability

Stable under normal temperature conditions.

10.3 Possibility of hazardous reactions

Hazardous polymerisation does not occur

10.4 Conditions to avoid

Keep away from heat or flame. Use only in a well-ventilated area.

10.5 Incompatible materials

Oxidising Agents, strong acids, strong alkalis

10.6 Hazardous decomposition products

May produce carbon monoxide and carbon dioxide upon decomposition

SECTION 11: Toxicological information

11.1 Information on toxicological effects.

Acute toxicity:	No data available
Skin corrosion / irritation:	Irritating to skin. Acute dermal LD50 in rabbit 5000 mg/kg. Essentially non-toxic at 2000 mg/kg
Serious eye damage/irritation:	Causes eye damage
Respiratory or skin sensitisation:	Can cause degreasing with irritation. Potential irritant. Over exposure at high levels may result in mucous membrane irritation of the nose and throat with coughing.
Germ cell mutagenicity:	Not determined.
Carcinogenicity:	No data available
Reproductive toxicity:	No data available
STOT-single exposure:	No data available
STOT-repeated exposure:	No data available
Aspiration hazard:	No data available
Other information:	No data available



SECTION 12: Ecological information

12.1 Toxicity

Fish Toxicity: Not determined, not expected to be toxic to aquatic organisms

12.2 Persistence and degradability

Data not available

12.3 Bio-accumulative potential

uncertain

12.4 Mobility in soil

Moderately mobile

12.5 Results of PBT and VPVB assessment

Data not available

12.6 Other adverse effects

Data not available

SECTION 13: Disposal considerations

13.1 Waste Treatment Methods

Regulations for Disposal generally vary according to location. Contact local waste disposal authority for advice, or pass to a chemical disposal company. Ensure compliance with local, state and federal regulations. Waste is suitable for incineration.

SECTION 14: Transport information

Warning Icon	Not classified
Proper Shipping Name	Not classified
UN No. Road	Not classified
ADR Class	Not classified
Hazard No (ADR)	Not classified
Hazchem Code	Not classified
UN No. SEA	Not classified
IMDG Class	Not classified
IMDG Pack Gr.	Not classified
EMS	Not classified
UN No. AIR	Not classified
Air Class	Not classified
Air Pack Gr.	Not classified

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

EU Directives	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 th Dec 2006 Concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 199/45/EC and repealing Council Regulation Council Regulation (EEC) No793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, and 93/105/EEC and 2000/21/EC including amendments.
Statutory Instruments	The Chemicals (Hazard Information and Packaging for Supply Regulations 2009 (S.I. 2009 No 716).
Approved Code of Practice	Classification and Labelling of Substances and Preparations Dangerous for Supply. Safety Data Sheets for Substances and Preparations
Guidance Notes	Workplace Exposure Limits EH40. CHIP for everyone HSG 108.

15.2 Chemical safety assessment

An assessment has not been executed as this is not a hazardous material according to article 31 of REACH 1907/2006.

SECTION 16: Other information

Training instructions: Refer to possible hazard before use of this product.

Abbreviations and 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 européen sur le transport des marchandises 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 and Labelling of Chemicals
Trem Card	Transport Emergency Card
STOT	Specific Target Organ Toxicity
N/A	Not Available
Precautionary Phrases in full:	P233: Keep container tightly closed P261: Avoid breathing vapour/spray P264: Wash hands thoroughly after handling P280: Wear protective gloves/clothing/eye-protection/face protection P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
Hazard Statements in full:	H315: Causes skin irritation H317: May cause an allergic skin reaction H319: Causes serious eye irritation

Complies with REACH guidance for SDS as circulated by ECHA 2011.

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SPECIFICATION SHEET

Product Name	Vetivert Oil	Document Version:	2
INCI	Vetiveria Zizanoides Root Oil	Revision Date:	10 th February 2016
CAS Number	8016-98-4		
EINECS Number	282-490-8		

Product Description

Vetiveria Zizanoides Root Oil is an extract obtained from the roots of the Vetivert, Vetiveria Zizanoides, Poaceae

Analytical Details	Range
Appearance	Brown orange to red viscous liquid
Odour	Characteristic
Specific Gravity @ 20°C	0960 – 1.012
Refractive Index @ 20°C	1.510 – 1530
Optical Rotation	+2.0 to +46.0

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