





# Vetiver Java, Essential Oil





VEGAN

CRUELTY-FREE

### What can it be used in?

Body Balm Body Oil
Body Salve Face Oil
Foot Cream Hair Oil
Scalp Treatment Scar Oil

Product code INCI Listing

9503943798474 Vetiveria Zizanoides Root Oil

Manufacturing Method CAS Number
Steam Distilled 8016-96-4 / 84238-29-9

Origin EINCS

Haiti - / 282-490-8 Indonesia

Scent Customs Tariff Code
Earthy, Woody 3301 2941 00

Colour

Brown, Orange-Red

#### **Skin Benefits**

Vetiver Java essential oil has an earthy and woody aroma that promotes a sense of grounding and relaxation. It has soothing and balancing effects on the skin and can provide antiseptic, anti-inflammatory, and antioxidant benefits. Its calming properties make it suitable for creating a peaceful and serene environment.

#### **Hair Benefits**

Vetiver Java essential oil can be used in hair care products to provide a grounding and calming effect on the scalp and promote relaxation.

## **Functionality**

#### **Anti-Inflammatory**

Powerful anti-inflammatory properties help soothe and calm irritated skin, reducing redness and inflammation, whilst providing relief from discomfort and promoting a balanced complexion for healthier-looking skin.

#### **Stress Relief**

With its calming properties, it helps reduce stress and tension, which can have positive effects on the skin and overall well-being. Stress relief can also contribute to a more balanced complexion.

#### Cooling

Provides a refreshing and cooling sensation to the skin, helping to alleviate heat and discomfort. Ideal for use in products designed to soothe sunburns or calm irritated skin.



# MANUFACTURING FLOW & INCI STATEMENT

PRODUCT NAME: Vetiver Java, Essential Oil

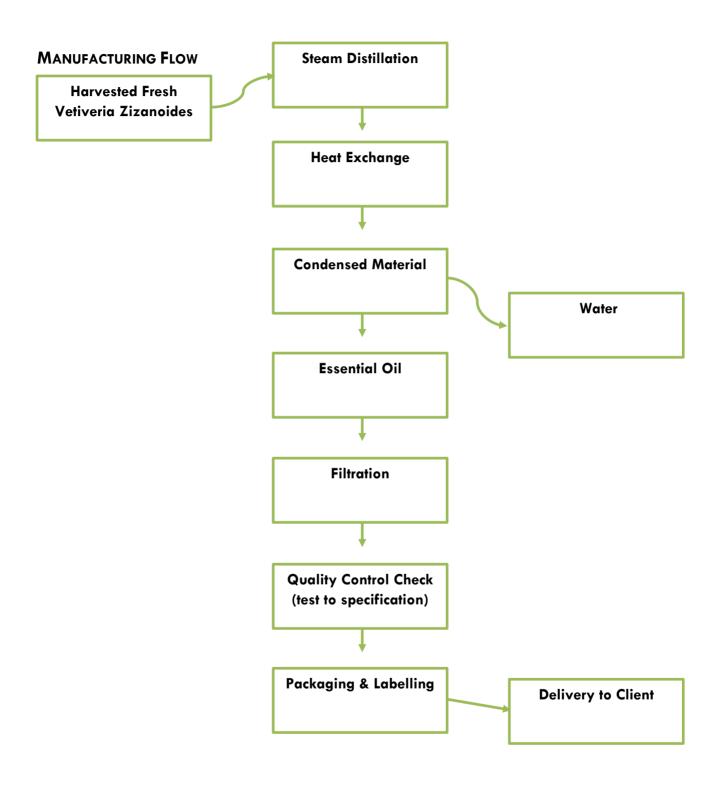
PRODUCT CODE: 9503943798474

#### **INCI STATEMENT**

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

INCI Name	% Inclusion	CAS Number
Vetiveria Zizanoides Root Oil	100	8016-96-4 / 84238-29-9







## **SPECIFICATION SHEET**

**PRODUCT NAME:** Vetiver Java, Essential Oil

PRODUCT INCI: VETIVERIA ZIZANOIDES ROOT OIL

PRODUCT CODE: 9503943798474

CAS NUMBER: 8016-96-4 / 84238-29-9

EINECS NUMBER: - / 282-490-8

MANUFACTURING METHOD: STEAM DISTILLED

SHELF LIFE / BEST BEFORE: 24 MONTHS

Analytical Details	Range
Appearance	LIQUID
Colour	Yellowish Brown — Reddish Brown
Odour	CHARACTERISTIC, WOODY, EARTHY
SPECIFIC GRAVITY @ 20°C	0.960 – 1.012
Refractive Index @ 20°C	1.510 – 1.530
OPTICAL ROTATION (°C)	+2.0 to +46.0

#### STORAGE CONDITIONS

STORE IN A COOL DRY PLACE AWAY FROM HEAT & SUNLIGHT

**DOCUMENTATION REVIEW DATE:** 

2021



# **IFRA STATEMENT**

PRODUCT NAME: Vetiver Java, Essential Oil PRODUCT INCI: VETIVERIA ZIZANOIDES ROOT OIL

PRODUCT CODE: 9503943798474

Youwish 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
None			

IFRA Category	% Maximum Use Level
IFRA Category 1	0.05
IFRA Category 2	0.05
IFRA Category 3	0.05
IFRA Category 4	0.90
IFRA Category 5A	0.10
IFRA Category 5B	0.10
IFRA Category 5C	0.10
IFRA Category 5D	0.033
IFRA Category 6	0.098
IFRA Category 7A	0.10
IFRA Category 7B	0.10
IFRA Category 8	0.033
IFRA Category 9	0.20
IFRA Category 10A	0.20
IFRA Category 10B	3.80
IFRA Category 11A	0.033
IFRA Category 11B	0.033
IFRA Category 12	No Restriction



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



# **ALLERGEN STATEMENT**

PRODUCT NAME: Vetiver Java, Essential Oil

PRODUCT CODE: 9503943798474

### **COSMETIC ALLERGENS**

Annex Illa		CAS NUMBER:	TOTAL ALLERGEN
Reference:		CAS NOWIDEN.	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	24006.04.4	0.000
79	CARBOXALDEHYDE	31906-04-4	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	0.000
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	0.000
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



## **Material Safety Data Sheet**

EU Regulation: 2020/878

SECTION 1: IDENTIFICATION OF	THE SUBSTANCE	/MIXTURE A	ND OF THE COMPANY	/UNDERTAKING	
1.1 PRODUCT IDENTIFICATION					
PRODUCT NAME	Vetiver Java, Essenti	al Oil			
BIOLOGICAL DEFINITION	VETIVERIA ZIZANOII POACEAE.	DES ROOT OIL I	S AN ESSENTIAL OIL DISTILLED I	FROM THE DRIED ROOTS	OF THE VETIVERT, VETIVERIA ZIZANOIDES,
INCI NAME	Vetiveria Zizanoii	DES ROOT OIL			
SYNONYMS & TRADE NAMES	-				
INTERNAL PRODUCT CODE	950394379847	<b>'</b> 4			
CAS-No	8016-96-4 / 84238-29-9	EC No.	- / 282-490-8	EINECS No.	- / 282-490-8
1.2 DETAILS OF THE SUPPLIER OF THE SAFETY DAT	A SHEET				
COMPANY ADDRESS	Youwish Transistorstraat 9	-021, 322CL,	Almere, The Netherlands		
EMAIL	contact@youwish.	nl			
1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DAT	A SHEET				
EMERGENCY CONTACTS	+31 36 2036384				



.1 LASSIFICATION OF THE SUBSTANCE OR MIXTURE	THE FULL TEXT FOR ALL HAZARD STATEMENTS DISPLAYED IN SECTION 16.
CLASSIFICATION (EU1272/2008)	Physical and Chemical Hazards Not classified Human Health Skin Sens.1 - H317 Skin Corrosion/Irritation Causes skin irritation - Category 2 Skin Sensitization May cause an allergic skin reaction - Category 1 Serious eye damage/eye irritation Causes serious eye irritation - Category 2/2A Environment Not classified
2 ABEL ELEMENTS	Label in accordance with Regulation (EC) No 1272/2008.
GHS LABEL	GHS07
SIGNAL WORD	Warning.
Contains	VETYVEROL, EUGENYL ACETATE
HAZARDS STATEMENT	- H315 Causes skin irritation H317 May cause an allergic skin reaction H319 Causes serious eye irritation.
Precautionary Statements	- P280 WEAR PROTECTIVE GLOVES/PROTECTIVE CLOTHING/EYE PROTECTION/FACE PROTECTION P302+P352 IF ON SKIN: Wash with plenty of soap and water P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove Contact lenses if present and easy to do — continue rinsing P333+P313 If skin irritation or a rash occurs: Get medical advice/attention P337+P313 If eye irritation persists get medical advice/attention.
SUPPLEMENTARY PRECAUTIONARY STATEMENTS	NO ADDITIONAL DATA AVAILABLE.
	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.
SECTION 3: COMPOSITION OF INGREDIEN	ITS
	<b>30 – 60 % VETYVEROL</b> CAS-NO: 89-88-3 EC NO: 201-949-55 CLASSIFICATION (EC 1272/2008) SKIN IRRIT. 2 - H315, EYE IRRIT. 2 - H319, SKIN SENS. 1 - H317
	1.0 - 5.0% EUGENYL ACETATE CAS-NO: 93-28-7 EC NO: 202-235-6



SECTION 4: FIRST AID MEASURES	
<b>4.</b> 1	
DESCRIPTION OF FIRST AID MEASURES	
GENERAL INFORMATION	ALWAYS REMOVE CONTAMINATED CLOTHING IMMEDIATELY.
INHALATION	REMOVE AFFECTED PERSON FROM SOURCE OF CONTAMINATION. GET MEDICAL ATTENTION IF ANY DISCOMFORT CONTINUES.
Ingestion	DO NOT INDUCE VOMITING. RINSE MOUTH THOROUGHLY WITH WATER, GET MEDICAL ATTENTION IF ANY DISCOMFORT CONTINUI
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)	NO ADDITIONAL DATA AVAILABLE.
4.3 NDICATION OF ANY IMMEDIATE MEDICAL ATTENTION OR SPECIAL TREATMENT REQUIRED	NO ADDITIONAL DATA AVAILABLE.
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	URES
SECTION 6: ACCIDENTAL RELEASE MEAS 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,
6.1 PERSONAL PRECAUTIONS 6.2	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.  Do not discharge into drains, water courses or onto the ground. Dispose of in line with Local authority
6.1 PERSONAL PRECAUTIONS 6.2 ENVIRONMENTAL PRECAUTIONS 6.3 METHODS & MATERIAL FOR CONTAINMENT AND CLEANING	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.  DO NOT DISCHARGE INTO DRAINS, WATER COURSES OR ONTO THE GROUND. DISPOSE OF IN LINE WITH LOCAL AUTHORITY GUIDELINES.  PERMOVE IGNITION SOURCES. PROVIDE ADEQUATE VENTUATION. AVOID EXCESSIVE INHALATION OF VAROURS. CONTAIN
6.1 PERSONAL PRECAUTIONS 6.2 ENVIRONMENTAL PRECAUTIONS 6.3 METHODS & MATERIAL FOR CONTAINMENT AND CLEANING UP 6.4 REFERENCES TO OTHER SECTIONS	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.  DO NOT DISCHARGE INTO DRAINS, WATER COURSES OR ONTO THE GROUND. DISPOSE OF IN LINE WITH LOCAL AUTHORITY GUIDELINES.  REMOVE IGNITION SOURCES. PROVIDE ADEQUATE VENTILATION. AVOID EXCESSIVE INHALATION OF VAPOURS. CONTAIN
6.1 PERSONAL PRECAUTIONS 6.2 ENVIRONMENTAL PRECAUTIONS 6.3 METHODS & MATERIAL FOR CONTAINMENT AND CLEANING UP 6.4 REFERENCES TO OTHER SECTIONS	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.  DO NOT DISCHARGE INTO DRAINS, WATER COURSES OR ONTO THE GROUND. DISPOSE OF IN LINE WITH LOCAL AUTHORITY GUIDELINES.  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.
6.1 PERSONAL PRECAUTIONS 6.2 ENVIRONMENTAL PRECAUTIONS 6.3 METHODS & MATERIAL FOR CONTAINMENT AND CLEANING UP 6.4 REFERENCES TO OTHER SECTIONS SECTION 7: HANDLING & STORAGE	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.  DO NOT DISCHARGE INTO DRAINS, WATER COURSES OR ONTO THE GROUND. DISPOSE OF IN LINE WITH LOCAL AUTHORITY GUIDELINES.  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.
6.1 PERSONAL PRECAUTIONS 6.2 ENVIRONMENTAL PRECAUTIONS 6.3 METHODS & MATERIAL FOR CONTAINMENT AND CLEANING UP 6.4 REFERENCES TO OTHER SECTIONS SECTION 7: HANDLING & STORAGE  7.1 PRECAUTIONS FOR SAFE-HANDLING	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.  DO NOT DISCHARGE INTO DRAINS, WATER COURSES OR ONTO THE GROUND. DISPOSE OF IN LINE WITH LOCAL AUTHORITY GUIDELINES.  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.  REFER & CONSIDER SECTION 8.  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
6.1 PERSONAL PRECAUTIONS 6.2 ENVIRONMENTAL PRECAUTIONS 6.3 METHODS & MATERIAL FOR CONTAINMENT AND CLEANING UP 6.4 REFERENCES TO OTHER SECTIONS SECTION 7: HANDLING & STORAGE  7.1 PRECAUTIONS FOR SAFE-HANDLING 7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES 7.3	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.  DO NOT DISCHARGE INTO DRAINS, WATER COURSES OR ONTO THE GROUND. DISPOSE OF IN LINE WITH LOCAL AUTHORITY GUIDELINES.  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.  REFER & CONSIDER SECTION 8.  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.  KEEP THE PRODUCT CONTAINER TIGHTLY CLOSED, IN A DRY, VENTILATED AREA. KEEP AWAY FROM POTENTIAL SOURCES OF
6.1	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.  DO NOT DISCHARGE INTO DRAINS, WATER COURSES OR ONTO THE GROUND. DISPOSE OF IN LINE WITH LOCAL AUTHORITY GUIDELINES.  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.  REFER & CONSIDER SECTION 8.  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.  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.
6.1 PERSONAL PRECAUTIONS 6.2 ENVIRONMENTAL PRECAUTIONS 6.3 METHODS & MATERIAL FOR CONTAINMENT AND CLEANING UP 6.4 REFERENCES TO OTHER SECTIONS SECTION 7: HANDLING & STORAGE  7.1 PRECAUTIONS FOR SAFE-HANDLING 7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES 7.3 SPECIFIC END USE(S) SECTION 8: EXPOSURE CONTROLS &	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.  DO NOT DISCHARGE INTO DRAINS, WATER COURSES OR ONTO THE GROUND. DISPOSE OF IN LINE WITH LOCAL AUTHORITY GUIDELINES.  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.  REFER & CONSIDER SECTION 8.  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.  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.



8.2 EXPOSURE CONTROLS	
EYE PROTECTION	WEAR PROTECTIVE GLOVES/EYE PROTECTION/FACE PROTECTION.
HAND PROTECTION	WEAR PROTECTIVE GLOVES/EYE PROTECTION/FACE PROTECTION.
RESPIRATORY EQUIPMENT HYGIENE MEASURES	NO DATA
ENGINEERING MEASURES	GOOD PERSONAL HYGIENE PRACTICES ARE ALWAYS ADVISABLE, ESPECIALLY WHEN WORKING WITH CHEMICALS / OILS.
	PROVIDE ADEQUATE VENTILATION.
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. ONLY ELIMINATE BY AUTHORISED COMPANIES.
SECTION 9: PHYSICAL & CHEMICAL PROPERTIES	
9.1 PHYSICAL & CHEMICAL PROPERTIES	
APPEARANCE	Viscous Liquid
Colour	YELLOWISH BROWN TO REDDISH BROWN .
Odour	CHARACTERISTIC, WOODY, EARTHY
RELATIVE DENSITY FLASH POINT (°C)	0.960 – 1.012 @ 20°C
REFRACTIVE INDEX @ 20 °C	>100°C
SOLUBILITY IN WATER @ 20 °C	1.510 - 1.530 @ 20°C  SOLUBLE IN ALCOHOL AND OIL. INSOLUBLE IN WATER.
9.2 OTHER INFORMATION	NO DATA
9.2.1 INFORMATION WITH REGARD TO PHYSICAL HAZARD CLASSES	NO DATA.
9.2.2 OTHER SAFETY CHARACTERISTICS	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 NORMAL TEMPERATURE CONDITIONS AND RECOMMENDED USE. CHEMICALLY STABLE. THIS MATERIAL PRESENTS NO SIGNIFICANT REACTIVITY HAZARD.
10.3 POSSIBILITY OF HAZARDOUS REACTIONS	NOT EXPECTED UNDER NORMAL CONDITIONS OF USE.
10.4 CONDITIONS TO AVOID	AVOID SPARKS, FLAME AND OTHER HEAT SOURCES.
10.5 INCOMPATIBLE MATERIALS	AVOID BASES, STRONG ACIDS AND STRONG OXIDIZING AGENTS
10.6 HAZARDOUS DECOMPOSITION PRODUCTS	THIS PRODUCT DOES NOT DECOMPOSE UNDER NORMAL CONDITIONS. UNDER FIRE CONDITIONS THE PRODUCT WILL PRODUCE



SECTION 11: TOXICOLOGICAL INFORMATION	
11.1 TOXICOLOGICAL EFFECTS	
ACUTE TOXICITY	NO ADDITIONAL DATA AVAILABLE.
Skin irritation	MAY CAUSE ALLERGIC REACTIONS ON SKIN
EYE DAMAGE OR IRRITATION	Causes serious eye irritation.
RESPIRATORY OR SKIN SENSITIVITY	NO ADDITIONAL DATA AVAILABLE
GERM CELL MUTAGENICITY	NO ADDITIONAL DATA AVAILABLE
CARCINOGENICITY	NO ADDITIONAL DATA AVAILABLE
REPRODUCTIVE TOXICITY	
STOT – SINGLE EXPOSURE	NO ADDITIONAL DATA AVAILABLE
	NO ADDITIONAL DATA AVAILABLE
STOT — REPEATED EXPOSURE	MAY AGGRAVATE DERMATITIS, PSORIASIS AND OTHER SKIN CONDITIONS.
ASPIRATION HAZARD  11.2  NFORMATION ON OTHER HAZARDS	NO ADDITIONAL DATA AVAILABLE  TOXIC TO AQUATIC ORGANISMS, MAY CAUSE LONG TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT.
SECTION 12: ECOLOGICAL INFORMATION	
12.1 Toxicity	TOXIC TO AQUATIC ORGANISMS, MAY CAUSE LONG TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT.
12.2 Persistence & degradability	GENERALLY BIODEGRADABLE
12.3 BIO- ACCUMULATIVE POTENTIAL	UNLIKELY TO BIO ACCUMULATED. CONTAMINATED WATER MUST BE CLEARED BEFORE ENTERING SEWERAGE.
12.4 Mobility in soil	VERY LOW WATER SOLUBILITY AND WILL FORM A SURFACE FILM.
12.5 RESULTS OF PBT & VPVB ASSESSMENT 12.6	NO DATA.
ENDOCRINE DISRUPTING PROPERTIES	DO NOT ALLOW PRODUCT TO ENTER STREAMS, SEWERS OR OTHER WATERWAYS.
12.7 Other adverse effects	NO DATA.
SECTION 13: DISPOSAL INFORMATION	
	13.1 DISPOSAL INSTRUCTIONS DO NOT DISCHARGE INTO DRAINS, WATER COURSES OR ONTO THE
	GROUND. DO NOT ALLOW THIS MATERIAL TO DRAIN INTO SEWERS/WATER SUPPLIES. DO NOT
	CONTAMINATE PONDS, WATERWAYS OR DITCHES WITH CHEMICAL OR USED CONTAINER. DISPOSE OF
	CONTENTS/CONTAINER IN ACCORDANCE WITH LOCAL/REGIONAL/NATIONAL/INTERNATIONAL
	REGULATIONS.
	13.2 LOCAL DISPOSAL REGULATIONS DISPOSE IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS.
I 3.1 Waste treatment methods	13.3 HAZARDOUS WASTE CODE NOT ESTABLISHED.
	13.4 WASTE TREATMENT METHODS EMPTY CONTAINERS OR LINERS MAY RETAIN SOME PRODUCT
	RESIDUES. THIS MATERIAL AND ITS CONTAINER MUST BE DISPOSED OF IN A SAFE MANNER (SEE: DISPOSA
	INSTRUCTIONS).
	13.5 PRECAUTIONS PREVENT SURFACE CONTAMINATION OF SOIL, GROUND AND SURFACE WATER.
	13.6 CONTAMINATED PACKAGING EMPTY CONTAINERS SHOULD BE TAKEN TO AN APPROVED WASTE
	HANDLING SITE FOR RECYCLING OR DISPOSAL. SINCE EMPTIED CONTAINERS MAY RETAIN PRODUCT
	RESIDUE, FOLLOW LABEL WARNINGS EVEN AFTER CONTAINER IS EMPTIED. CONTAINERS SHOULD BE



EMPTIED AS COMPLETELY AS PRACTICAL BEFORE DISPOSAL. IF POSSIBLE, RECYCLE CONTAINERS.

SECTION 14: TRANSPORT INFORMATION	
14.1 Transport Information	
UN Number	ROAD: NOT LISTED  RAIL: NOT LISTED  AIR: NOT LISTED
14.2 UN Shipping Name	NOT REGULATED
14.3 TRANSPORT HAZARD CLASS(ES)	ADR/RID/ADN NOT REGULATED FOR TRANSPORT ADR/RID/ADN CLASS IMDG CLASS ICAO CLASS/DIVISION
14.4 Packing Group	NONE.
14.5 Enviromental Hazards	None.
14.6 SPECIAL PRECAUTIONS FOR USER	None.
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 2020/878 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL OF $18^{\rm TH}$ DECEMBER 2006. CONCERNING THE REGISTRATION, EVALUATION, AUTHORIZATION & RESTRICTION OF CHEMICALS (REACH), ESTABLISHING A EUROPEAN CHEMICALS AGENCY, AMENDING DIRECTIVE $1999/45$ /EC and repealing council regulation (EEC) NO793/93 & COMMISSION REGULATION (EC) NO1488/94 as well as council directive $76/769$ /EEC & COMMISSION DIRECTIVE $91/155$ /ECC, $93/67$ /ECC, $93/105$ /EEC & 2000/21/EC (INCLUDING AMENDMENTS
STATUTORY INSTRUMENTS	THE CHEMICALS (HAZARD INFORMATION & PACKAGING FOR SUPPLY REGULATIONS 2009 (S.I.2009 NO 716).
Approved Code of Practice	CLASSIFICATION & LABELLING OF SUBSTANCES & PREPARATIONS DANGEROUS FOR SUPPLY. SAFETY DATA SHEETS FOR SUBSTANCES & PREPARATIONS.
GUIDANCE NOTES	WORKPLACE EXPOSURE LIMITS EH40. CHIP FOR EVERYONE HSG 108.
15.2 CHEMICAL SAFETY ASSESSMENT	-



SECTION 16: OTHER INFORMATION	
	H302 HARMFUL IF SWALLOWED.
Hazard and/ or Precautionary Statements in full	H315 Causes skin irritation.
	H317 May cause an allergic skin reaction.
	H319 Causes serious eye irritation.
TRAINING INSTRUCTIONS: REFER TO POSSIBLE HAZARD BEFORE USE OF THIS PRODUCT.	
ABBREVIATIONS & ACRONYMS:	
MSDS	MATERIAL SAFETY DATA SHEET.
INCI	INTERNATIONAL NOMENCLATURE OF COSMETIC INGREDIENTS.
CAS	CHEMICAL ABSTRACT SERVICE.
IMDG	International Maritime code for Dangerous Goods.
ADR	ACCORD EUROPEAN SUR LE TRANSPORT DES MERCHANDISES DANGEREUSES PAR ROUTE (EUROPEAN
ADR	AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY ROAD).
RID	International Carriage of Dangerous Goods by Rail.
ICAO	International Civil Aviation Organization.
ADN	International Carriage of Dangerous Goods by Inland Waterways.
GHS	GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION & LABELLING OF CHEMICALS.
TREM CARD	TRANSPORT EMERGENCY CARD.
STOT	SPECIFIC TARGET ORGAN TOXICITY.

DOCUMENTATION REVISION		
DATE	CHANGE DESCRIPTION	
10™ April 2018	Data Launch	
2021	Review	
JANUARY 2023	REVIEW	



Product Code	9503943798474
Product Name	Vetiver Java, Essential Oil
Alcohol Status	Youwish can confirm that Vetiver Java, Essential Oil is free of Alcohol.
Animal Testing	Youwish can confirm that Vetiver Java, Essential Oil has not been Animal Tested for cosmetic purposes by or on behalf of the company, nor has any of its component parts named in the International Cosmetic Ingredient Dictionary & Handbook (11th Edition), 31st December 1990.
BSE/TSE Status	Youwish can confirm that Vetiver Java, Essential Oil is not derived from Animal Origin, therefore a BSE/TSE statement is not applicable.
Calif Proposition 65	Youwish can confirm to their best of their knowledge that Vetiver Java, Essential Oil does not contain any contaminants or bi-products known to the State of California that may cause cancer or reproductive toxity as listed under proposition 65 State Drinking Water & Toxic Enforcement Act.
CAS Number	8016-96-4 / 84238-29-9
Chloramphenicol Residue	Youwish can confirm that Vetiver Java, Essential Oil is free from Chloramphenicol residues.
CITES Status	Youwish can confirm that Vetiver Java, Essential Oil is not endangered & therefore not applicable for CITES certification.
Classification, Labelling & Packaging (CLP)	Youwish can confirm that Vetiver Java, Essential Oil complies with Regulation (EC) no 1272/2008; classification, labelling & packaging of substances and mixtures (CLP).
CMR Status	Youwish can confirm that Vetiver Java, Essential Oil is not classified as carcinogenic, mutagenic or toxic according to regulation 1272/2008.
Cosmetic Status	Youwish can confirm that Vetiver Java, Essential Oil is suitable for cosmetic application. It is not included in the list of substances prohibited in cosmetic products. Neither does it contain parabens, restricted preservatives, colorants or UV filters (Annex II - VI of EU Regulation 1223/2009).
Customs Tariff Code	3301 2941 00
EINCS Number	- / 282-490-8
Ethylene Oxide Status	Youwish can confirm that Ethylene Oxide is not being used in production process of Vetiver Java, Essential Oil.
Food Status	Youwish can confirm that Vetiver Java, Essential Oil is suitable for food application, only when the appropriate quantity/dilution is used. This material complies with European Food Regulations (i.e. 2023/915). Please note, if you intend on using this product as a food ingredient we insist you email our Technical Team before doing so for our opinion on the dilution applied to your finished product.
Functionality	Anti-Inflammatory, Cooling, Stress Relief
Gluten Free	Youwish can confirm that Vetiver Java, Essential Oil is not derived from, neither does it contain any Gluten ingredients.
Gluten Free Statement	Youwish can confirm that Vetiver Java, Essential Oil is not derived from, neither does it contain any Gluten ingredients.
GMO (IP) Status	Youwish can confirm that Vetiver Java, Essential Oil is not derived/produced from a raw material that has been genetically modified.
HACCP & GMP Statement	Youwish can confirm that Vetiver Java, Essential Oil has been produced under Good Manufacturing Practices (GMP) and a HACCP system. Youwish is BRC certified.
Hair Benefits	Vetiver Java essential oil can be used in hair care products to provide a grounding and calming effect on the scalp and promote relaxation.
Halal	Youwish can confirm this product is not Halal certified, however it does not contain any animal derived product or ingredient, hence it is HALAL applicable.
INCI Listing	Vetiveria Zizanoides Root Oil
Irradiation Status	Youwish can confirm that Vetiver Java, Essential Oil has not been Irradiated during its production process



Karanal Status	Youwish can confirm that Youwish can confirm that Vetiver Java, Essential Oil is free from Karanal.
Key Essential Fatty Acid Compounds	Betas
Kosher	Youwish can confirm that Vetiver Java, Essential Oil is not Kosher Certified.
Leaping Bunny	Youwish can confirm that Vetiver Java, Essential Oil complies with the criteria of the Humane Cosmetics Standard, has not been tested or re-tested on animals for cosmetic purposes by or on behalf of Youwish
Manufacturing Method	Steam Distilled
Methyk Salicylate Status	
Microbiological & PAH Status & Heavy Metals & Pesticides	Youwish can confirm that Vetiver Java, Essential Oil does not have a micro specification because the product was sterilized in the production process. We can confirm that there is no detectable amounts of pesticides. It is produced from natural raw material and complies within the limits of the oil-related requirements of European Regulation 2023/915 regarding heavy metals, dioxins, dioxin-like PCBs, Benzo-a-pyrene & PAH.
Mycotoxins Status	Youwish can confirm that Vetiver Java, Essential Oil is compliant with the requirements of the Regulation (EC) N° 2023/915. We can confirm this product is free from: Aflatoxins, Ergot alkaloids, Patulin, Alternaria toxins, Ochratoxin A, Fusarium toxins.
Nagoya Protocol	
Nanomaterials Status	Youwish can confirm with reference to Vetiver Java, Essential Oil that no Nanomaterials were added at any stage of the manufacturing/production process, in accordance with EU Cosmetics Regulation.
Organic	Not applicable to this grade of product. Organic versions are available on request, please see our Organic category.
Origin Statement	Youwish can confirm that Vetiver Java, Essential Oil Origin is Indonesia.
Palm Status	Youwish can confirm that palm oil has not been used in the process of manufacturing Vetiver Java, Essential Oil.
Parabens Status	Youwish can confirm that Vetiver Java, Essential Oil is free from Parabens.
Product Page Intro	Unearth the captivating allure of Vetiver Java, Essential Oil, known for its calming and grounding properties. Boasting a rich history dating back to ancient India, where it was revered for its therapeutic properties, Vetiver Java, Essential Oil is renowned for its calming and grounding effects on the mind and body. Its versatility is reflected in its various applications—whether diffused to promote relaxation, blended with a carrier oil for a soothing massage, or incorporated into skincare and hair care formulations for its nourishing benefits. Over the centuries, Vetiver Java has been celebrated not only for its aromatic qualities but also for its potential to enhance overall well-being. Contact us today for a quote or order a sample and elevate your products with Vetiver Java, Essential Oil.
Product Status	Pure & Natural.
Pyrrolizidine Alkaloids Status	Youwish can confirm that Vetiver Java, Essential Oil is free from any Pyrrolizidine Alkaloids.
REACH Status	Exempt 1T Per annum.
Residual Solvents	Youwish can confirm that no solvents or preservatives have been used in the production of Vetiver Java, Essential Oil.
Skin Benefits	Vetiver Java essential oil has an earthy and woody aroma that promotes a sense of grounding and relaxation. It has soothing and balancing effects on the skin and can provide antiseptic, anti-inflammatory, and antioxidant benefits. Its calming properties make it suitable for creating a peaceful and serene environment.
SVHC (Substances of Very High Concern) & Impurities Status	Youwish can confirm that Vetiver Java, Essential Oil is free from of SVHC and any impurities.



Vegan Youwish can confirm that Vetiver Java, Essential Oil is suitable for Vegans.