



## SAFETY DATA SHEET (SDS)

Prepared in accordance with the Globally Harmonized System (GHS) and Regulation (EC) No. 1907/2006 (REACH, as amended)

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### VETIVER ESSENTIAL OIL

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#### SECTION 1: IDENTIFICATION

| Parameter              | Details                                                           |
|------------------------|-------------------------------------------------------------------|
| Product Name           | Vetiver Essential Oil                                             |
| Botanical Name         | Vetiveria zizanioides                                             |
| Synonym                | Vetivert Oil / Vetiver Oil Haiti                                  |
| INCI Name              | Vetiveria Zizanioides Root Oil                                    |
| CAS Number             | 8016-96-4                                                         |
| EC Number              | 282-490-8                                                         |
| EC-associated CAS      | 84238-29-9                                                        |
| REACH Registration No. | 01-2120119716-55-0000                                             |
| CoE Number             | 479n                                                              |
| Plant Family           | Poaceae                                                           |
| Plant Part             | Roots                                                             |
| Extraction Method      | Steam Distillation                                                |
| Country of Origin      | Haiti                                                             |
| Product Type           | 100% Natural Essential Oil / Natural Complex Substance (NCS/UVCB) |
| Intended Use           | Perfumery / Fragrance Formulation / Cosmetic Raw Material         |

The botanical identity, root plant part, Haitian origin and steam-distillation method are independently supported by current Haitian Vetiver product documentation.

#### Supplier:

##### Aromology

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#### SECTION 2: HAZARDS IDENTIFICATION

##### GHS / CLP CLASSIFICATION



Current Haiti-specific safety documentation identifies Vetiver Oil as an irritant/sensitising material. Vigon's current product information specifically identifies serious eye irritation, skin irritation and allergic skin reaction hazards.

| Hazard Class           | Classification                                 |
|------------------------|------------------------------------------------|
| Skin Irritation        | Category 2                                     |
| Skin Sensitisation     | Category 1                                     |
| Serious Eye Irritation | Category 2A                                    |
| Environmental Hazard   | Refer to current batch/supplier classification |

### SIGNAL WORD

WARNING

### HAZARD STATEMENTS

H315 – Causes skin irritation.  
H317 – May cause an allergic skin reaction.  
H319 – Causes serious eye irritation.

These classifications are also reported in Vetiver Haiti safety references for CAS 8016-96-4.

### PRECAUTIONARY STATEMENTS

P261 – Avoid breathing vapours/mist.  
P264 – Wash thoroughly after handling.  
P272 – Contaminated work clothing should not be allowed out of the workplace.  
P280 – Wear protective gloves/protective clothing/eye 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.  
P332+P313 – If skin irritation occurs: Get medical advice/attention.  
P333+P313 – If skin irritation or rash occurs: Get medical advice/attention.  
P337+P313 – If eye irritation persists: Get medical advice/attention.  
P362+P364 – Take off contaminated clothing and wash before reuse.  
P501 – Dispose of contents/container in accordance with applicable regulations.

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### SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

| Component             | Identification                 | Concentration |
|-----------------------|--------------------------------|---------------|
| Vetiver Essential Oil | Vetiveria zizanioides Root Oil | 100%          |
| CAS                   | 8016-96-4                      | —             |
| EC                    | 282-490-8                      | —             |
| Plant Part            | Roots                          | —             |
| Extraction            | Steam Distillation             | —             |



| Component | Identification | Concentration |
|-----------|----------------|---------------|
| Origin    | Haiti          | —             |

## CHEMICAL CHARACTER

### Natural Complex Substance (NCS) / UVCB

Vetiver Essential Oil is a complex natural mixture principally containing sesquiterpenes, sesquiterpene alcohols, ketones and related naturally occurring constituents.

It should not be represented as a single chemical substance.

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## SECTION 4: FIRST-AID MEASURES

### INHALATION

Move exposed person to fresh air.  
Keep at rest in a position comfortable for breathing.  
Seek medical advice if symptoms persist.

### SKIN CONTACT

Remove contaminated clothing.  
Wash skin thoroughly with soap and plenty of water.  
If irritation or allergic reaction develops, obtain medical advice.

### EYE CONTACT

Rinse cautiously with clean water for several minutes.  
Remove contact lenses if present and easy to do.  
Continue rinsing for at least 15 minutes.  
If eye irritation persists, seek medical attention.

### INGESTION

Rinse mouth.  
Do not induce vomiting unless instructed by medical personnel.  
Seek medical attention if significant quantities are swallowed or symptoms develop.

### MOST IMPORTANT SYMPTOMS

Possible effects include:

- Skin irritation
- Redness
- Allergic skin reaction
- Eye irritation



- Discomfort following concentrated exposure

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## SECTION 5: FIRE-FIGHTING MEASURES

### FLASH POINT

Approximately 94 °C / 201 °F

Vigon reports a flash point of 201 °F (94 °C) for its Haiti Vetiver Oil, while another Haiti-specific SDS reports >93.5 °C.

### SUITABLE EXTINGUISHING MEDIA

Use:

- Carbon dioxide (CO<sub>2</sub>)
- Dry chemical powder
- Alcohol-resistant foam
- Water fog

### UNSUITABLE EXTINGUISHING MEDIA

Do not use a direct high-pressure water jet.

### SPECIAL HAZARDS

Combustion or thermal decomposition may produce:

- Carbon monoxide
- Carbon dioxide
- Smoke
- Irritating organic vapours

### PROTECTIVE EQUIPMENT

Firefighters should wear suitable protective equipment and self-contained breathing apparatus where necessary.

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## SECTION 6: ACCIDENTAL RELEASE MEASURES

### PERSONAL PRECAUTIONS

- Ensure adequate ventilation.
- Avoid direct skin contact.



- Avoid eye contact.
- Avoid breathing concentrated vapour or mist.
- Wear protective gloves.
- Wear appropriate eye protection.
- Remove ignition sources where appropriate.

## **ENVIRONMENTAL PRECAUTIONS**

Prevent concentrated material from entering:

- Drains
- Sewers
- Surface water
- Groundwater
- Soil

## **CLEAN-UP METHODS**

Contain spill and absorb with:

- Sand
- Vermiculite
- Diatomaceous earth
- Universal chemical absorbent

Transfer absorbed material into suitable labelled containers for disposal.

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## **SECTION 7: HANDLING AND STORAGE**

### **HANDLING**

- Use with adequate ventilation.
- Avoid eye and skin contact.
- Avoid breathing concentrated vapours.
- Wear suitable gloves during weighing and filling.
- Keep away from excessive heat.
- Do not eat, drink or smoke while handling.
- Wash hands thoroughly after use.
- Keep container tightly closed when not in use.

### **STORAGE**

Store:

- In tightly closed containers
- In a cool, dry location



- Protected from direct sunlight
- Away from excessive heat
- In a well-ventilated location
- Away from strong oxidising agents

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## SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

### OCCUPATIONAL EXPOSURE LIMITS

No specific occupational exposure limit established.

A Vetiver Haiti SDS specifically reports workplace exposure limits as not applicable.

### PERSONAL PROTECTION

| Protection             | Recommendation                                     |
|------------------------|----------------------------------------------------|
| Eye Protection         | Safety glasses / chemical goggles                  |
| Hand Protection        | Chemical-resistant protective gloves               |
| Skin Protection        | Suitable protective clothing                       |
| Respiratory Protection | Normally not required with adequate ventilation    |
| Poor Ventilation       | Approved organic-vapour respirator where necessary |
| Hygiene                | Wash hands thoroughly after handling               |

Local exhaust ventilation should be considered for prolonged handling, elevated temperatures or processes generating mist/vapour.

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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

| Property         | Specification / Typical Value        |
|------------------|--------------------------------------|
| Physical State   | Viscous liquid                       |
| Colour           | Yellowish to amber / brownish        |
| Odour            | Characteristic, woody, earthy, smoky |
| Botanical Source | Vetiveria zizanioides                |
| Plant Part       | Roots                                |
| Extraction       | Steam Distillation                   |
| CAS Number       | 8016-96-4                            |
| EC Number        | 282-490-8                            |
| Flash Point      | Approx. 94 °C / 201 °F               |
| Boiling Point    | Approx. 210 °C                       |
| Specific Gravity | Typically approx. 0.984–1.035        |



| Property         | Specification / Typical Value |
|------------------|-------------------------------|
| Water Solubility | Insoluble                     |
| Refractive Index | Batch dependent               |
| Vapour Pressure  | Not established               |

Vigon reports 94°C flash point and 210°C boiling point, while another current Haitian Vetiver specification reports specific gravity 0.984–1.035.

A 2025 Haiti batch COA gives specific gravity 0.9954 and refractive index 1.5212, demonstrating the expected batch-specific nature of these values.

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## SECTION 10: STABILITY AND REACTIVITY

### REACTIVITY

No hazardous reaction expected under normal conditions of storage and handling.

### CHEMICAL STABILITY

Stable under recommended storage conditions.

### POSSIBILITY OF HAZARDOUS REACTIONS

No hazardous polymerisation expected.

### CONDITIONS TO AVOID

Avoid:

- Excessive heat
- Direct sunlight
- Open flames
- Sparks
- Prolonged exposure to air
- Contamination

### INCOMPATIBLE MATERIALS

Strong oxidising agents.

### HAZARDOUS DECOMPOSITION PRODUCTS

Combustion may generate carbon monoxide, carbon dioxide, smoke and irritating organic compounds.

## **SECTION 11: TOXICOLOGICAL INFORMATION**

### **ACUTE TOXICITY**

Published Vetiver Oil safety data report:

Oral LD50, Rat: >5,000 mg/kg

Dermal LD50, Rabbit: >5,000 mg/kg

### **SKIN IRRITATION**

Causes skin irritation – H315

### **SKIN SENSITISATION**

May cause an allergic skin reaction – H317

### **EYE IRRITATION**

Causes serious eye irritation – H319

### **INHALATION**

Concentrated vapours or mist may cause irritation.

### **GERM CELL MUTAGENICITY**

No specific classification established from the information reviewed.

### **CARCINOGENICITY**

No specific classification established from the information reviewed.

### **REPRODUCTIVE TOXICITY**

No specific classification established from the information reviewed.

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## **SECTION 12: ECOLOGICAL INFORMATION**

Avoid uncontrolled release of concentrated essential oil into the environment.

### **ECOTOXICITY**

Product-specific aquatic toxicity can vary with composition and batch.

### **PERSISTENCE AND DEGRADABILITY**

Complete product-specific data not established.

### **BIOACCUMULATIVE POTENTIAL**

Complete product-specific data not established.

### **MOBILITY IN SOIL**

Data not established.

### **PBT / vPvB**

No definitive batch-specific assessment available from the information reviewed.

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## SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of contents and contaminated packaging through an authorised waste-management facility.

Do not discharge concentrated essential oil into drains, waterways or soil.

Waste disposal must comply with applicable local and national regulations.

Empty containers may retain product residue and should be handled accordingly.

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## SECTION 14: TRANSPORT INFORMATION

This section should be handled carefully because transport classification can vary between supplier SDSs depending on the environmental classification and composition.

A current commercial Vetiver Haiti specification identifies the product under UN 3082, while other supplier documentation should be consulted for the exact batch.

For a client-facing supplier SDS where your original producer's transport classification is not available, I recommend:

| Parameter        | Information                                      |
|------------------|--------------------------------------------------|
| UN Number        | Refer to current batch/original manufacturer SDS |
| ADR/RID          | Refer to current batch/original manufacturer SDS |
| IMDG             | Refer to current batch/original manufacturer SDS |
| IATA             | Refer to current batch/original manufacturer SDS |
| Packing Group    | Refer to current batch/original manufacturer SDS |
| Marine Pollutant | Refer to current batch/original manufacturer SDS |

I would not automatically put UN 3082 on your Aromology SDS unless your actual supplier's transport data supports it.

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## SECTION 15: REGULATORY INFORMATION

### PRODUCT REGULATORY IDENTIFICATION

| Parameter      | Details                        |
|----------------|--------------------------------|
| Product        | Vetiver Essential Oil          |
| Botanical Name | Vetiveria zizanioides          |
| INCI           | Vetiveria Zizanioides Root Oil |
| CAS            | 8016-96-4                      |
| EC             | 282-490-8                      |

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| Parameter          | Details               |
|--------------------|-----------------------|
| EC-associated CAS  | 84238-29-9            |
| REACH Registration | 01-2120119716-55-0000 |
| CoE                | 479n                  |
| Plant Part         | Roots                 |
| Extraction         | Steam Distillation    |
| Origin             | Haiti                 |

The EC and REACH identifiers above are confirmed in the October 2025 European Vetiver Haiti SDS.

#### APPLICABLE FRAMEWORKS

- Regulation (EC) No. 1907/2006 – REACH
- Regulation (EC) No. 1272/2008 – CLP
- Regulation (EU) 2020/878
- Regulation (EC) No. 1223/2009 – Cosmetics
- Applicable IFRA Standards

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#### SECTION 16: OTHER INFORMATION

##### PRODUCT DESCRIPTION

Vetiver Essential Oil (Haiti) is obtained by steam distillation of the roots of *Vetiveria zizanioides*.

It is a viscous natural essential oil possessing a characteristic:

Sweet • Resinous • Fresh • Woody • Earthy • Smoky

olfactive profile. Haitian Vetiver is widely used as a base note and natural fixative in fine fragrance. Current Haiti-origin product documentation describes the aroma as rich, earthy, sweet and slightly smoky.

##### FULL HAZARD STATEMENTS

H315 – Causes skin irritation.

H317 – May cause an allergic skin reaction.

H319 – Causes serious eye irritation.

##### DOCUMENT CONTROL

| Parameter      | Details                      |
|----------------|------------------------------|
| Product        | Vetiver Essential Oil        |
| Botanical Name | <i>Vetiveria zizanioides</i> |



| Parameter         | Details                 |
|-------------------|-------------------------|
| CAS Number        | 8016-96-4               |
| EC Number         | 282-490-8               |
| Country of Origin | Haiti                   |
| Document Type     | Safety Data Sheet (SDS) |
| Revision          | 2.0 - Updated           |

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**Authorised by:**  
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