

## SAFETY DATA SHEET

In accordance with 29 CFR 1910.1200

**Product:** Vetiver Oil, Indonesia

**Version:** 1

### 1. IDENTIFICATION

#### Product Identifier

**Product identifier:** Vetiver Oil, Indonesia; CAS: 84238-29-9

**Other identifiers:** Vetiver oil

#### Recommended use of the chemical and restrictions on use

**Product uses:** Essential Oil

#### Supplier Details

**Company name:** Artisan Aromatics

**Company address:** 1708 Lena Street, #103  
Santa Fe, NM 87505

**Contact:** Stephanie Ariel

**E-Mail address:** hello@artisanaromatics.com

**Company phone:** 505-231-9439

#### Emergency telephone number

**Emergency phone:** ChemTel: 1-800-255-3924 (Domestic)

### 2. HAZARD IDENTIFICATION

#### Classification

**This product is classified under 29CFR 1910.1200(d) as follows:**

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

**Class and category of danger:** Eye Damage / Irritation Category 2A  
Sensitization - Skin Category 1  
Aspiration Hazard Category 1

**Signal word:** Danger

**Hazard statements:** May be fatal if swallowed and enters airways.  
May cause an allergic skin reaction.  
Causes serious eye irritation.

**M factor:** None

#### **Pictograms:**



**Precautionary statements:** Avoid breathing vapour or dust.

## SAFETY DATA SHEET

In accordance with 29 CFR 1910.1200

**Product:** Vetiver Oil, Indonesia

**Version:** 1

Wash hands and other contacted skin thoroughly after handling.  
Contaminated work clothing should not be allowed out of the workplace.  
Wear protective gloves/eye protection/face protection.  
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.  
IF ON SKIN: Wash with plenty of soap and water.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
Do not induce vomiting.  
If skin irritation or rash occurs: Get medical advice/attention.  
If eye irritation persists: Get medical advice/attention.  
Wash contaminated clothing before reuse.  
Store locked up.  
Dispose of contents/container to approved disposal site, in accordance with local regulations.

**Hazards not otherwise classified (HNOC)** None

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Substances

**Product identifier:** Vetiver Oil, Indonesia; CAS: 84238-29-9

#### **Contains:**

Name	CAS	%	GHS Classification
beta-Vetivone	18444-79-6	1-<5%	Skin Sens. 1B;H317
alpha-Vetivone	15764-04-2	1-<5%	Skin Sens. 1B;H317
trans-Isoeugenol	5932-68-3	0.1-<1%	Acute Tox. 4-Acute Tox. 4-Acute Tox. 4-Skin Irrit. 2-Eye Irrit. 2A-Skin Sens. 1A-STOT SE 3;H302-H312-H315-H317-H319-H332-H335

The exact percentage concentrations of components are being withheld as a trade secret.

### 4. FIRST-AID MEASURES

#### Description of first aid measures

**Inhalation:** Remove from exposure site to fresh air, keep at rest, and obtain medical attention.  
**Eye exposure:** Flush immediately with water for at least 15 minutes. Contact physician if symptoms persist.  
**Skin exposure:** IF ON SKIN: Wash with plenty of soap and water.  
**Ingestion:** IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

#### Most important symptoms and effects, both acute and delayed

May be fatal if swallowed and enters airways.  
May cause an allergic skin reaction.  
Causes serious eye irritation.

## **SAFETY DATA SHEET**

**In accordance with 29 CFR 1910.1200**

**Product:** Vetiver Oil, Indonesia

**Version:** 1

**Indication of immediate medical attention and special treatment needed, if necessary**

Treat symptomatically

### **5. FIRE-FIGHTING MEASURES**

**Extinguishing media**

Suitable media: Carbon dioxide, Dry chemical, Foam.

**Specific hazards arising from the chemical**

In case of fire, may be liberated: Carbon monoxide, Unidentified organic compounds.

**Protective Equipment and Precautions for Firefighters**

In case of insufficient ventilation, wear suitable respiratory equipment.

### **6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions, protective equipment and emergency procedures:**

Avoid inhalation. Avoid contact with skin and eyes. See protective measures under Section 7 and 8.

**Methods and 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.

### **7. HANDLING AND STORAGE**

**Precautions for safe handling:**

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.

**Conditions for safe storage, including any incompatibilities:**

Store in a well-ventilated place. Keep container tightly closed. Keep cool. Ground/bond container and receiving equipment. Use explosion-proof electrical, ventilating and lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge.

### **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Control parameters**

**Exposure guidelines**

This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

**Other exposure guidelines**

## SAFETY DATA SHEET

In accordance with 29 CFR 1910.1200

**Product:** Vetiver Oil, Indonesia

**Version:** 1

No information available

### Exposure controls

#### **Engineering measures**

Showers, eyewash stations, ventilation systems.

### Individual protection measures, such as personal protective equipment

#### **Eye/Face and Skin Protection**

Wear protective gloves/eye protection/face protection, and suitable protective clothing

#### **Respiratory protection**

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations. A NIOSH-approved air-purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air-purifying respirators is limited. Use a positive pressure, air-supplied respirator if there is any potential for uncontrolled release, exposure levels are not known or any other circumstances where air-purifying respirators may not provide adequate protection.

#### **Hygiene measures**

Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Physical and chemical properties

<b>Appearance:</b>	Not determined
<b>Odor:</b>	Not determined
<b>Odor threshold:</b>	Not determined
<b>pH:</b>	Not determined
<b>Melting point / freezing point:</b>	Not determined
<b>Initial boiling point / range:</b>	Not determined
<b>Flash point:</b>	> 246 °F / > 119 °C
<b>Evaporation rate:</b>	Not determined
<b>Flammability (solid, gas):</b>	Not determined
<b>Upper/lower flammability or explosive limits:</b>	Product does not present an explosion hazard
<b>Vapor pressure:</b>	Not determined
<b>Vapor density:</b>	Not determined
<b>Relative density:</b>	Not determined
<b>Solubility(ies):</b>	Not determined
<b>Partition coefficient: n-octanol/water:</b>	Not determined
<b>Auto-ignition temperature:</b>	Not determined
<b>Decomposition temperature:</b>	Not determined

## SAFETY DATA SHEET

In accordance with 29 CFR 1910.1200

**Product:** Vetiver Oil, Indonesia

**Version:** 1

**Viscosity:** Not determined

**Other information:** None available

### 10. STABILITY AND REACTIVITY

**Reactivity:**

Presents no significant reactivity hazard, by itself or in contact with water.

**Chemical stability:**

Good stability under normal storage conditions.

**Possibility of hazardous reactions:**

Not expected under normal conditions of use.

**Conditions to avoid:**

Avoid extreme heat.

**Incompatible materials:**

Avoid contact with strong acids, alkalis or oxidising agents.

**Hazardous decomposition products:**

Not expected.

### 11. TOXICOLOGICAL INFORMATION

**Information on toxicological effects**

<b>Acute Toxicity:</b>	Based on available data the classification criteria are not met.
Acute Toxicity Oral	Not Applicable
Acute Toxicity Dermal	Not Applicable
Acute Toxicity Inhalation	Not Available
<b>Skin corrosion/irritation:</b>	Based on available data the classification criteria are not met.
<b>Serious eye damage/irritation:</b>	Eye Damage / Irritation Category 2A
<b>Respiratory or skin sensitisation:</b>	Sensitization - Skin Category 1
<b>Germ cell mutagenicity:</b>	Based on available data the classification criteria are not met.
<b>Carcinogenicity:</b>	Based on available data the classification criteria are not met.
<b>Reproductive toxicity:</b>	Based on available data the classification criteria are not met.
<b>STOT-single exposure:</b>	Based on available data the classification criteria are not met.
<b>STOT-repeated exposure:</b>	Based on available data the classification criteria are not met.
<b>Aspiration hazard:</b>	

**Additional Information** None available

## SAFETY DATA SHEET

In accordance with 29 CFR 1910.1200

**Product:** Vetiver Oil, Indonesia  
**Version:** 1

### 12. ECOLOGICAL INFORMATION

**Ecotoxicity:**

Toxic to aquatic life with long lasting effects.  
Harmful to aquatic life with long lasting effects.

**Persistence and degradability:** Not available

**Bioaccumulative potential:** Not available

**Mobility in soil:** Not available

**Other adverse effects:** Not available

### 13. DISPOSAL CONSIDERATIONS

**Waste treatment**

Dispose of in accordance with local regulations. Avoid disposing into drainage systems and into the environment. Empty containers should be taken to an approved waste handling site for recycling or disposal.

### 14. TRANSPORT INFORMATION

	14.1 UN number:	14.2 UN Proper Shipping Name:	14.3 Transport hazard class(es):	Sub Risk:	14.4. Packing Group:
<b>UN Model Regulations</b>	UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (beta-Cedrene, alpha-Cedrene)	9	-	III
<b>US DOT</b>	None	-			-
<b>US DOT (Bulk)</b>	None	-			-
<b>IMDG</b>	UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (beta-Cedrene, alpha-Cedrene) MARINE POLLUTANT	9	-	III
<b>ADR,RID,ADN</b>	UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (beta-Cedrene, alpha-Cedrene)	9	-	III
<b>ICAO TI</b>	UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (beta-Cedrene, alpha-Cedrene)	9	-	III

US DOT refers to domestic transport by road/rail within the 48 ground states

US DOT (Bulk) refers to domestic bulk transport by road/rail within the 48 ground states.

**Environmental hazards:** This is an environmentally hazardous substance.

**Special precautions for user:** None additional

## **SAFETY DATA SHEET**

**In accordance with 29 CFR 1910.1200**

**Product:** Vetiver Oil, Indonesia

**Version:** 1

**Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:**

Not applicable

### **15. REGULATORY INFORMATION**

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

RIFM ID Number: 206-A2.12

LM Unique Identifier: LM4282

#### **Additional information**

None additional

### **16. OTHER INFORMATION**

#### **Key to revisions:**

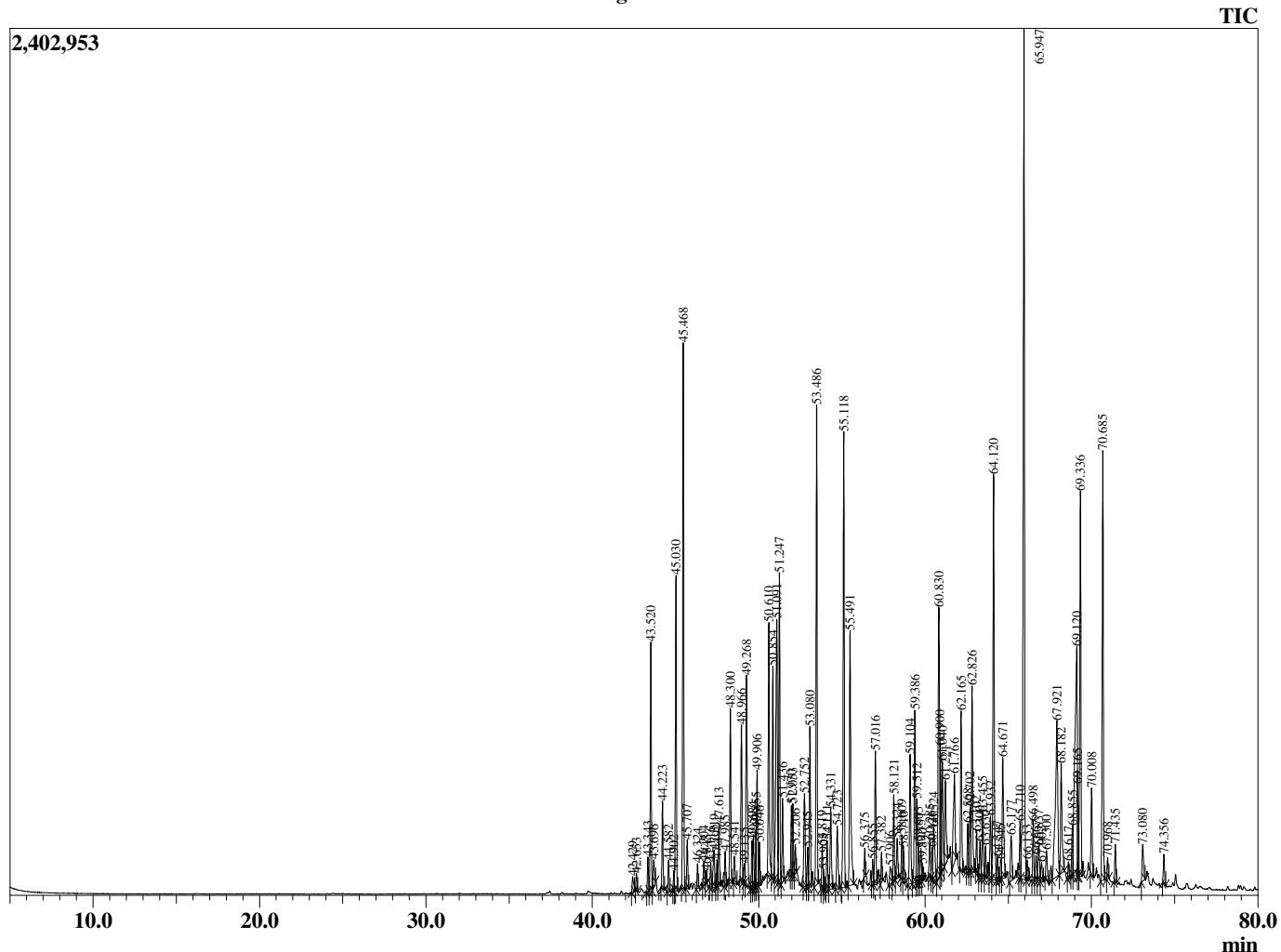
Not applicable

The information in this safety data sheet is to the best of our knowledge true and accurate but all data, instructions, recommendations and/or suggestions are made without guarantee.

# Sample Information

Analyzed by : A. Mattingly  
 Analyzed : 5/19/2021 4:57:07 PM  
 Sample Type : Essential Oil  
 Sample Name : VetZiz3  
 Injection Volume : 0.10  
 Lot Number : K0E0226H [1-2]  
 Instrument : GC-2

## Chromatogram VetZiz3



## Peak Report TIC

R.Time	Name	Area%
42.429	Unidentified	0.15
42.653	Nigritene isomer	0.13
43.343	Unidentified	0.25
43.520	Unidentified	1.87
43.696	Isoledene	0.26
44.223	Nigritene isomer	0.65
44.582	Unidentified	0.24
44.902	Unidentified	0.13
45.030	6-epi-Nigritene	2.43
45.468	Nigritene	4.23
45.707	Unidentified	0.36
46.324	Unidentified	0.17
46.704	alpha-Cedrene	0.20
46.848	Unidentified	0.08
47.116	Unidentified	0.17
47.319	beta-Cedrene + Unidentified	0.38
47.492	Unidentified	0.18
47.613	Unidentified	0.48
47.985	Unidentified	0.25
48.300	Unidentified	1.33
48.541	(E)-Isoeugenol	0.24
48.966	Prezizaene	1.27
49.135	Unidentified	0.15
49.268	Khusimene + Unidentified	2.11
49.597	Unidentified	0.35
49.684	Unidentified	0.39
49.855	Unidentified	0.33
49.906	11,12,13-tri-nor-cis-Eudesm-5-en-7-one	0.94
50.046	(E)-Eremophila-1(10),7(11)-dien-12-yl acetat	0.31
50.610	alpha-Amorphene	2.01
50.854	alpha-Vetispirene	1.77
51.091	Unidentified + delta-Selinene	2.87
51.247	beta-Vetispirene	2.33
51.436	Valencene	0.63
51.970	Unidentified	0.52
52.053	trans-Muurola-4(14),5-diene	0.51
52.206	Unidentified	0.21
52.752	Nootkatene	0.91
52.945	delta-Cadinene	0.30
53.080	Selina-3,7(11)-diene	1.27
53.486	gamma-Vetivenene	3.64
53.819	Unidentified	0.35
53.905	Unidentified	0.11
54.111	Selina-4(15),7(11)-diene	0.40
54.331	alpha-Calacorene	0.76
54.723	Unidentified	0.63
55.118	beta-Vetivenene	3.67
55.491	Vetivenene isomer	2.41
56.375	Unidentified	0.20
56.855	3,5,11-Eudesmatriene isomer	0.20
57.016	Vetivenene analogue	1.07
57.382	Unidentified	0.22
57.906	Unidentified	0.20
58.121	Khusimone	0.65
58.324	Unidentified	0.34
58.609	3,5,11-Eudesmatriene isomer	0.38
58.710	Unidentified	0.32
59.104	Maaliol	1.21
59.386	Unidentified	1.52
59.512	Unidentified	0.67
59.605	gamma-Eudesmol	0.32
59.751	Unidentified	0.29



R.Time	Name	Area%
59.840	Unidentified	0.10
60.285	alpha-Funebren-15-al	0.32
60.426	Unidentified	0.26
60.524	2-epi-Ziza-6(13)-en-3-alpha-ol isomer + alpha	0.64
60.830	Unidentified	2.78
60.900	Unidentified	0.83
61.040	Cyclocopacamphan-12-ol epimer A	1.00
61.221	Cyclocopacamphan-12-ol epimer B	0.82
61.766	Unidentified	1.05
62.165	2-epi-Ziza-6(13)-en-3-alpha-ol	1.27
62.568	Unidentified	0.38
62.702	Unidentified	0.55
62.826	Khusian-2-ol	1.55
63.102	epi-Zizanal	0.31
63.300	Selin-7(11)-en-4-ol	0.30
63.455	2-epi-Ziza-6(13)-en-3-alpha-ol analogue	0.60
63.630	Unidentified	0.27
63.932	13-nor-Eudesma-4,6-dien-11-one	0.55
64.120	Unidentified	3.58
64.347	Zizanol	0.21
64.545	Unidentified	0.17
64.671	Vetiselinenol	1.23
65.177	Unidentified	0.48
65.710	Unidentified	0.46
65.947	Khusimol	8.10
66.133	Valerenal	0.20
66.498	Unidentified	0.44
66.667	Khusimol analogue	0.23
66.837	Unidentified	0.41
67.002	Unidentified	0.20
67.300	Unidentified	0.29
67.921	Isozizanoic acid	2.67
68.182	(E)-Isovalencenol	1.13
68.617	Unidentified	0.12
68.855	Nootkatone	0.41
69.120	Zizanoic acid	3.91
69.165	Unidentified	0.58
69.336	beta-Vetivone	3.33
70.008	E-Isovalencenal	0.75
70.685	alpha-Vetivone	3.59
70.968	Unidentified	0.16
71.435	Unidentified	0.28
73.080	Unidentified	0.37
74.356	Unidentified	0.24
		100.00