



**AMPHORA AROMATICS
LIMITED**

essential oils, skincare & aromatherapy products

SAFETY DATA SHEET

1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

PRODUCT NAME: Vetivert Essential Oil

SUPPLIER: Amphora Aromatics Limited, Airfield House, Western Drive, Bristol, BS14 0AF

TELEPHONE: +44 (0)117-9087770.

PRODUCT NUMBER: 53

CAS NUMBER: 84238-29-9

EC NUMBER: 282-490-8

INCI: Vetiveria zizanioides (Vetiver) Root Oil

IDENTIFIED USES:

- Industrial use: washing and cleaning products; detergents and maintenance products
- Professional use: washing and cleaning products; detergents and maintenance products; polishes and wax blends; cosmetics
- Consumer use: washing and cleaning products; polishes

BIOLOGICAL DEFINITION: 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 zizanioides.

2: HAZARDS IDENTIFICATION

CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

CAS: 84238-29-9

EC: 282-490-8

CLASSIFICATION (EC 1272/2008):

- | | |
|--------------------------|--|
| - PHYSICAL HAZARDS: | Not classified. |
| - HEALTH HAZARDS: | Skin Irrit. 2 – H315
Skin Sens. 1 – H317
Eye Irrit. 2 – H319 |
| - ENVIRONMENTAL HAZARDS: | Aquatic Chronic 2 – H411 |

LABEL ELEMENTS

PICTOGRAM:



SIGNAL WORD:

HAZARD STATEMENTS:

WARNING

H315: Causes skin irritation
H317: May cause an allergic skin reaction
H319: Causes serious eye irritation.
H411: Toxic to aquatic life with long lasting effects.



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PRECAUTIONARY STATEMENTS:	<p>P273: Avoid release to the environment. P280: Wear protective gloves/clothing/eye-protection/face protection P261: Avoid breathing dust/fume/gas/mist/vapours/spray. P333+P313: If skin irritation or rash occurs: Get medical advice/attention. P337+P313: If eye irritation persists: Get medical advice/attention. P370+P378: In case of fire, use dry sand, dry chemical or alcohol-resistant foam to extinguish. P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P233: Keep container tightly closed. P501: Dispose of contents/container in accordance with local/regional/national /international regulations. Manufacturer/supplier or the competent authority to specify whether disposal requirements apply to contents, container or both.</p>
OTHER HAZARDS	<p>All essential oils are highly concentrated so have strong aromas and colour that can stain. Vetiver Oil contains over 11% Hydrocarbons (38%). Emergency treatment for those who accidentally swallow oils in this category is to seek medical attention immediately and transport sitting in a half-upright position.</p>

3: COMPOSITION/INFORMATION ON INGREDIENTS

2 - 31% α -Vetivone

CAS NUMBER: 15764-04-2	EC NUMBER: 239-855-1
CLASSIFICATION (EC 1272/2008):	Skin Sens. 1B, H317.

2 - 31% β -Vetivone

CAS NUMBER: 18444-79-6	EC NUMBER: Unassigned.
CLASSIFICATION (EC 1272/2008):	Skin Sens. 1B, H317

**0 - 34% Vetiver Alcohols
(includes Khusimol)**

CAS NUMBER: 16223-63-5	EC NUMBER: Unassigned.
CLASSIFICATION (EC 1272/2008):	Not classified.

**0 - 19% Vetiver Terpenes
(includes β -Vetivenene)**

CAS NUMBER: 27840-40-0	EC NUMBER: Unassigned.
CLASSIFICATION (EC 1272/2008):	Not classified.



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4: FIRST AID MEASURES

INHALATION:	Remove the subject to fresh air. Consult a doctor
INGESTION:	Drink a lot of water. Allow vomiting, except when the product is classified R65. Consult a doctor in case of faintness.
SKIN CONTACT:	Remove the contaminated clothes. Wash abundantly in water (or water + soap). If an irritation persists, consult a doctor.
EYE CONTACT:	Wash abundantly in water. Consult a doctor if the irritation persists.
GENERAL INFORMATION:	Take Risk and Safety phrases (section 2) into account
NOTES FOR THE DOCTOR:	Use personal protective equipment as described in section 8 if substance is present

5: FIREFIGHTING MEASURES

EXTINGUISHING MEDIA RECOMMENDED:	CO2 or extinguishing powder. Do not use water with full jet.
SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE:	Carbon monoxide (CO) Carbon dioxide (CO2) Smoke and Soot.
ADVICE FOR FIREFIGHTERS:	Avoid inhaling vapours and smoke. Use mask if necessary. Do not attack the fire with water: the water will tend to feed the fire. Essential oil has the faculty to float on water so the distribution of the fire is then increased. To put out a fire based on essential oil, use a specific fire extinguisher with powder ABC (or equivalent). If the fire is not important, it may be extinguished by covering it with earth, sand or blanket.
EMERGENCY ACTION CODE:	3[Y] (Foam + BA & Fire Kit)

6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:	Avoid the inhalation and the contact with the skin and the eyes. Take away any sources of inflammation. Aerate premises. Do not smoke.
ENVIRONMENT PRECAUTIONS:	Avoid the contamination of sewers, waters of surface and some subterranean waters.
CLEANING UP METHODS FOR SPILLAGES:	A large spill must be contained by means of an absorbent, sand or inert powder, which will then be disposed of according to the regulations in force. Incinerate cloths, towelling, etc. that may have been used to mop up the spill mop (danger of spontaneous combustion).

7: HANDLING AND STORAGE

USAGE PRECAUTIONS:	Store in a cool, dry, ventilated area away from heat sources. Keep containers upright and tightly closed when not in use.
CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES:	It is recommended to store in closed original packing, shielded from sources of heat and avoiding extremes of temperature. Good aeration of premises is desirable.



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8: EXPOSURE CONTROLS/PERSONAL PROTECTION

PROTECTIVE EQUIPMENT:



APPROPRIATE ENGINEERING CONTROLS:

Where appropriate, use closed systems to transfer and process this material. If appropriate, isolate mixing rooms and other areas where this material is used or openly handled. Maintain these areas under negative air pressure relative to the rest of the plant.

EYE/FACE PROTECTION:

The wearing of safety glasses is strongly recommended.

HAND PROTECTION:

Avoid skin contact. Use chemically resistant gloves.

GENERAL:

The exposure in a thermal flow bound to a fire or to an explosion can provoke burns in variable degrees, according to the distance from material. Wear appropriate protective equipment as well as autonomous respiratory protection. Conform to local regulations relating to environmental protection.

BODY PROTECTION:

The wearing of an overall or special clothes is strongly recommended.

RESPIRATORY PROTECTION:

In the well aerated premises, protection of respiratory tracts is not normally necessary. If it is not the case, a mask can be used.

9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:

Viscous liquid

COLOUR:

Light to dark brown

ODOUR:

Fresh vetiver type

FLASH POINT °C (PENSKY MARTENS CLOSED CUP METHOD)

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SPECIFIC GRAVITY @ 20°C:

0.980 to 1.000

REFRACTIVE INDEX @ 20°C:

1.500 to 1.530

SOLUBILITY:

water: insoluble - slightly soluble: @ 20°C < 1.77 x 10⁻³ g/l

BOILING POINT:

276 °C @ 99.3 - 99.4 kPa

VAPOUR PRESSURE @ 20°C:

1.52 Pa

FREEZING POINT:

< -20 °C

10: STABILITY AND REACTIVITY

REACTIVITY:

No dangerous reaction known in the normal conditions of use.

CHEMICAL STABILITY:

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

POSSIBILITY OF HAZARDOUS REACTIONS

No dangerous reaction according to our knowledge in the normal conditions of use

CONDITIONS TO AVOID:

Avoid excessive temperature.

INCOMPATIBLE MATERIALS:

Avoid contact with strong acids, alkali or oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS:

No decomposition in corresponding use.



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11: TOXICOLOGICAL INFORMATION

INFORMATION ON TOXICOLOGICAL EFFECTS (HISTORICAL DATA):

ORAL:	Not classified (Wistar rat: LD50 >5000 mg/kg bw)
EYE:	Irritating (albino rabbits: mean ocular irritation score 19.0/110 at 24 hours)
INHALATION:	No data
SKIN:	Not classified (New Zealand white rabbit: LD50 >5000 mg/kg bw)
SKIN IRRITATION:	Data waiving
SKIN SENSITIVITY:	Not sensitizing (guinea pig maximisation test)
MUTAGENICITY:	Not mutagenic (S. typhimurium & E. coli reverse mutation assay).
FERTILITY/REPRODUCTION:	No data

12: ECOLOGICAL INFORMATION

TOXICITY:

- FISH:	No data
- ALGAE:	48h-EL50 = 23 mg/l
- DAPHNIA:	48h-EC50 = 0.95 mg/l; 48h-EL50 = 2.6 mg/l
- MICROORGANISMS:	No data
- PLANTS:	No data
PERSISTENCE AND DEGRADABILITY:	Not readily biodegradable – only 21% biodegradation at 10 days
BIOACCUMULATIVE POTENTIAL:	Not determined
MOBILITY IN SOIL:	Not determined
RESULTS OF PBT AND vPvB ASSESSMENT:	Not determined
OTHER ADVERSE EFFECTS:	Not established

13: DISPOSAL CONSIDERATIONS

DISPOSAL METHODS: Dispose of according to 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.

SPECIAL PRECAUTIONS FOR LANDFILL AND INCINERATION: Waste is suitable for incineration

14: TRANSPORT INFORMATION

UN No.:	Not regulated.
PROPER SHIPPING NAME:	Not regulated.
TRANSPORT HAZARD CLASS(ES):	Not regulated.
PACKING GROUP:	Not regulated.
ENVIRONMENTAL HAZARDS:	See section 2
TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL73/78 AND THE IBC CODE:	N/A

15: REGULATORY INFORMATION

SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE:	The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No 716)
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SDS: 53 Vetivert Essential Oil

Compiled by: Johndan Chilcott, Regulatory Affairs - Approved by Woody Evans, Director – Date: 09/05/2019 - Version: 3



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16: OTHER INFORMATION

PACKAGING:

TYPE	SUITABILITY
Glass	Yes
Steel	Yes
Aluminium	Yes
F/HDPE	No
Stainless Steel Drum	Ideal

Q.C. REQUIREMENTS.

In-line with general product specification. Always satisfy suitability for specific application.

Shelf life is 24 months when stored within advised conditions, re-test every 12 months thereafter for a possible further 24 months

The data provided in this material safety data sheet is meant to represent typical data/analysis for this product and is correct to the best of our knowledge. The data was obtained from current and reliable sources, but is supplied without warranty, expressed or implied, regarding its' correctness or accuracy. It is the user's responsibility to determine safe conditions for the use of this product, and to assume liability for loss, injury, damage or expense arising from improper use of this product. The information provided does not constitute a contract to supply to any specification, or for any given application, and buyers should seek to verify their requirements and product use.