SAFETY DATA SHEET (SDS)

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

SECTION 1 – IDENTIFICATION

Product Name: Vetiver Oil CO_2
Botanical Name: *Chrysopogon zizanioides* (L.) Roberty
Synonym: *Vetiveria zizanioides*
INCI Name: Vetiveria Zizanoides Root Extract
CAS Number: 8016-96-4
EC Number: 282-490-8
Product Type: Natural CO_2 Extract
Plant Part: Roots
Extraction Method: Supercritical CO_2 Extraction
Origin: Indonesia
Recommended Use: Professional Perfumery Raw Material

Supplier

Aromology Trading LLC
G05 Al Ghazal Building
Nadd Al Hamar
Dubai, United Arab Emirates

Website: www.aromology.com
Email: info@aromology.com
Telephone: +971 505197601

SECTION 2 – HAZARD IDENTIFICATION

GHS Classification

- Skin Irritation – Category 2
- Eye Irritation – Category 2
- Skin Sensitisation – Category 1
- Hazardous to the Aquatic Environment, Chronic – Category 2

Signal Word

Warning

Hazard Statements

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.

Precautionary Statements

P261 Avoid breathing vapours.
P264 Wash thoroughly after handling.
P273 Avoid release to the environment.
P280 Wear protective gloves and eye protection.
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P333 + P313 If skin irritation or rash occurs: Get medical advice.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes.
P337 + P313 If eye irritation persists: Get medical advice.
P391 Collect spillage.
P501 Dispose of contents/container according to local regulations.

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

Component	Information
Product	Vetiver Oil CO_2
Botanical Name	*Chrysopogon zizanioides*
CAS Number	8016-96-4
EC Number	282-490-8
Purity	100% Natural CO_2 Extract
Extraction Method	Supercritical CO_2 Extraction

Major Naturally Occurring Constituents

- Khusimol
- α-Vetivone
- β-Vetivone
- Vetiselinenol
- Isovalencenol
- Khusimene
- Vetivenes
- β-Humulene
- Vetivenyl Vetivenate

SECTION 4 – FIRST AID MEASURES

Inhalation

Move exposed person to fresh air. Seek medical advice if symptoms persist.

Skin Contact

Wash immediately with soap and water. Remove contaminated clothing. Seek medical advice if irritation or rash develops.

Eye Contact

Rinse cautiously with clean water for at least 15 minutes. Seek medical attention if irritation persists.

Ingestion

Rinse mouth. Do not induce vomiting. Seek medical advice if unwell.

SECTION 5 – FIRE FIGHTING MEASURES

Suitable Extinguishing Media

- Carbon dioxide
- Dry chemical powder
- Alcohol-resistant foam
- Water mist

Unsuitable Extinguishing Media

Direct water jet.

Hazardous Combustion Products

Carbon monoxide, carbon dioxide, smoke and irritating organic vapours.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Wear suitable personal protective equipment.
Prevent entry into drains and waterways.
Absorb with sand, vermiculite or other inert absorbent.
Collect into suitable containers for disposal.
Clean contaminated surfaces thoroughly.

SECTION 7 – HANDLING AND STORAGE

Use in well-ventilated areas.
Avoid contact with skin and eyes.
Keep container tightly closed.
Protect from heat, light and oxidising agents.

Recommended Storage Temperature: 15–25 °C

Store in amber glass, aluminium or other suitable tightly sealed containers.

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls

Use adequate ventilation.

Eye Protection

Chemical safety goggles or safety glasses.

Hand Protection

Chemical-resistant nitrile gloves.

Respiratory Protection

Normally not required under recommended handling conditions. Use suitable respiratory protection if ventilation is inadequate.

Skin Protection

Protective laboratory clothing recommended.

AROMOLOGY

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Property	Specification
Appearance	Viscous liquid to soft paste
Colour	Amber brown to dark brown
Odour	Deep woody, earthy, smoky, rooty, balsamic, rich vetiver
Relative Density at 20°C	0.990 – 1.030
Refractive Index at 20°C	1.520 – 1.540
Flash Point	>100°C
Solubility in Water	Insoluble
Solubility in Alcohol	Soluble

SECTION 10 – STABILITY AND REACTIVITY

Stability

Stable under recommended storage conditions.

Conditions to Avoid

Heat, open flames, direct sunlight, prolonged exposure to air.

Incompatible Materials

Strong oxidising agents.

Hazardous Decomposition Products

Carbon monoxide, carbon dioxide and smoke.

SECTION 11 – TOXICOLOGICAL INFORMATION

Routes of Exposure

Skin, eyes, inhalation and ingestion.

Skin

May cause skin irritation and allergic skin reaction.

Eyes

May cause serious eye irritation.

Inhalation

High vapour concentrations may cause respiratory discomfort.

Ingestion

May cause gastrointestinal discomfort. Do not induce vomiting if swallowed.

Carcinogenicity

Not classified.

Mutagenicity

Not classified.

Reproductive Toxicity

Not classified.

SECTION 12 – ECOLOGICAL INFORMATION

Toxic to aquatic life with long-lasting effects.
Avoid uncontrolled release into the environment.
Environmental data for the complete natural CO_2 extract is limited.

SECTION 13 – DISPOSAL CONSIDERATIONS

Dispose through an authorised waste contractor.
Do not discharge into drains or waterways.
Dispose according to local and national environmental regulations.

SECTION 14 – TRANSPORT INFORMATION

Regulation		Status
UN Number	UN3082	

Regulation	Status
Proper Shipping Name	Environmentally Hazardous Substance, Liquid, N.O.S. (Vetiver Extract)
ADR/RID	Class 9
IMDG	Class 9
IATA	Class 9
Packing Group	III

SECTION 15 – REGULATORY INFORMATION

Prepared in accordance with:

- GHS Revision 9
- OSHA Hazard Communication Standard
- Regulation (EC) No. 1907/2006 (REACH)
- Regulation (EU) 2020/878

SECTION 16 – OTHER INFORMATION

Vetiver Oil CO_2 – Indonesia is a natural CO_2 extract obtained from Indonesian vetiver roots using supercritical carbon dioxide extraction. Compared with traditional steam-distilled vetiver essential oil, the CO_2 extract may present a fuller, richer, more rooty and earthy profile with enhanced depth and fixative character.

This product is intended exclusively for professional fragrance formulation and research applications.

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