

**VETIVER ORGANIC ESSENTIAL OIL**

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2020/878

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

**1.1 Product identifier**

Product Name VETIVER ORGANIC ESSENTIAL OIL  
 Substance name Chrysopogon zizanioides (L.) Roberty .  
 CAS No. 84238-29-9  
 EC No. 282-490-8  
 REACH Registration No. Exempt: tonnage band under 1 ton/year

**1.2 Relevant identified uses of the substance or mixture and uses advised against**

Identified Use(s) Raw material for industry  
 Cosmetic products, detergents  
 Uses Advised Against Not known.

**1.3 Details of the supplier of the safety data sheet**

Supplier  
 Company Identification Biottonia NaturalCare  
 SL Address of Manufacturer Carretera de la Estación 25  
 Postal code 06480 Montijo, España  
 Telephone: (+34) 924 45 90 56  
 E-mail [Info@biottonia.com](mailto:Info@biottonia.com)

**1.4 Emergency telephone number**

National response centre  
 Address Servicio de Información Toxicológica (SIT)  
 Teléfono de urgencias toxicológicas: 91 5620420  
 Dirección: c/ Luis Cabrera nº 9, 28002 Madrid  
 Fax: 91 411 40 66  
 www.mju.es/toxicologia  
 Emergency Phone No. 915 620 420

**SECTION 2: HAZARDS IDENTIFICATION**

**2.1 Classification of the substance or mixture**

Regulation (EC) No. 1272/2008 (CLP) Skin corrosion/irritation, 2;  
 Skin sensitization, 1;  
 Eye irritation, 2;  
 Hazardous to the aquatic environment— long-term hazard, 2;  
 Aspiration hazard, 1;  
 Serious eye irritation, 2A;

**2.2 Label elements**

According to Regulation (EC) No. 1272/2008 (CLP)  
 Product Name VETIVER ORGANIC ESSENTIAL OIL  
 Substance name Chrysopogon zizanioides

Hazard Pictogram(s)



GHS07



GHS09

Signal Word(s)

Danger

Hazard Statement(s)

H304: May be fatal if swallowed and enters airways  
 H315: Causes skin irritation.  
 H317: May cause an allergic skin reaction  
 H319: Causes serious eye irritation. .  
 H411: Toxic to aquatic life with long  
 H413: May cause long lasting harmful effects to aquatic life.

Precautionary Statement(s)

P240: Ground/bond container and receiving equipment.  
 P261: Avoid breathing dust/fume/gas/mist/vapours/spray.  
 P264: Wash your hands thoroughly after handling.  
 P272: Contaminated work clothing should not be allowed out of the workplace.  
 P273: Avoid release to the environment.

**2.3 Other hazards**

P405: Store locked up  
 P403 + P235: Store in a well-ventilated place. Keep cool.  
 P301+P316: IF SWALLOWED: Get emergency medical help immediately. Do NOT

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induce vomiting.

clothing. Rinse skin with water [or shower].

P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated

P331: Do NOT induce vomiting.

P391: Collect spillage.

P333+P313: If skin irritation or a rash occurs: Get medical advice/attention.

P370+P378: In case of fire; Use for extinction: CO<sub>2</sub>, powder or spray

P280: Wear protective gloves/protective clothing/eye protection/face protection

P241: Use explosion-proof electrical/ventilating/lighting/.../equipment.

P242: Use only non-sparking tools.

P362 + P364 – Take off contaminated clothing and wash it before reuse

P302 + P352: IF ON SKIN: Wash with plenty of soap and water

P243: Take precautionary measures against static discharge

P332+P313: If skin irritation occurs: Get medical advice/attention.

P280: Wear protective gloves/protective clothing/eye protection/face protection

P210: Keep away from heat, hot surface, sparks, open flames and other ignition

sources. - No smoking.

P233: Keep container tightly closed

**2.4 Additional Information**

For full text of H/P Statements see section 16.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

**3.1 Substances**

INGREDIENT(S)	CAS No.	EC No. / REACH Registration No.	%W/W	Hazard Statement(s)	Hazard Pictogram(s)
Chrysopogon zizanioides	84238-29-9	282-490-8	100	H304 H315 H317 H319 H411 H413	GHS07 GHS09

Major constituents of the substance contributing to the classification:

Concentration (%)	CAS	EC Number	Chemical name	IUPAC	Hazard Class and Category Code; Hazard statement codes	Pictogram and signal word
5 - 7	16223-63-5	-	Khusimol	[(1R,2S,5S,8R)-7,7-dimethyl-6-methylidene-2-tricyclo[6.2.1.01,5]undecanyl]methanol	Limited availability	No information
< 4	469-61-4	207-418-4	α-Cedrene	[3R-(3α,3αβ,7β,8αα)]-2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene	H226: Flam. liquid and vapor H304: Aspiration hazard H400 aquatic life warning H410: toxic to aquatic life with long lasting effects	Danger: GHS02 GHS08 GHS09
< 4	483-76-1	866-559-5	γ-Cadinene	(1S,8aR)-4,7-dimethyl-1-propan-2-yl-1,2,3,5,6,8a-hexahydronaphthalene	H304: Aspiration hazard H315: Skin corrosion/irritation	Danger GHS08 GHS07
< 4	481-34-5	-	α-Cadinol	(1R,4S,4aR,8aR)-1,6-dimethyl-4-propan-2-yl-3,4,4a,7,8,8a-hexahydro-2H-naphthalen-1-ol	Limited availability	No information
<2	-	-	Ziza-6(13)-en-3-α-ol	-	Limited availability	No information
5-10	15764-04-2	239-855-1	alpha-Vetivone	(4R,4aS)-4,4a-dimethyl-6-propan-2-ylidene-4,5,7,8-tetrahydro-3H-naphthalen-2-one	H317 Sensitization, Skin	Danger GHS07

For full text of H/P Statements see section 16.

**SECTION 4: FIRST AID MEASURES**

**4.1 Description of first aid measures**

Inhalation	Remove person to fresh air and keep at rest. Get medical attention immediately.
Skin Contact	Remove contaminated clothes. Rinse skin with plenty of water or shower. Refer for medical attention.
Eye Contact	First rinse with plenty of water for 15 minutes (remove contact lenses if easily possible), then take to a doctor if the symptoms persist.
Ingestion	If swallowed, rinse mouth with water. Get medical attention immediately and show this

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container or label. Do NOT induce vomiting.

General information

Always remove contaminated clothing immediately.

**4.2 Most important symptoms and effects, both acute and delayed**

Acute toxicity: no information was found for vetiver oil, and little is known about its major constituents.

Adverse skin reactions: no information was found for vetiver oil, and little is known about its major constituents.

**4.3 Indication of any immediate medical attention and special treatment needed**

See section 4.1 for further information.

**SECTION 5: FIREFIGHTING MEASURES**

**5.1 Extinguishing media**

Suitable Extinguishing media

Use foam or dry powder to extinguish.

Unsuitable extinguishing media

Water jet spray

**5.2 Special hazards arising from the substance or mixture**

Flammable liquid and vapour. Combustion or thermal decomposition will evolve toxic and irritant vapours.

**5.3 Advice for firefighters**

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Special protective equipment for fire-fighters: wear positive pressure self-contained breathing apparatus (scba) and appropriate protective clothing.

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

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

Provide adequate ventilation. Use non-sparking ventilation systems, approved explosion-proof equipment, and intrinsically safe electrical systems. Wear suitable protective clothing, gloves and eye/face protection.

**6.2 Environmental precautions**

Avoid release to the environment. Spillages or uncontrolled discharges into watercourses must be alerted to the appropriate regulatory body.

**6.3 Methods and material for containment and cleaning up**

Collect spillage. Adsorb spillages onto sand, earth or any suitable adsorbent material. Contain spillages with sand, earth or any suitable adsorbent material. Earth may be shovelled to contain spillage and to avoid contamination of sewers and watercourses.

**6.4 Reference to other sections**

See Also Section 8, 13.

**SECTION 7: HANDLING AND STORAGE**

**7.1 Precautions for safe handling**

Do NOT smoke and do NOT expose the product to an open flame or to any other potential source of ignition. Wear appropriate gloves to prevent skin exposure. Avoid contact with skin and inhalation of its vapours or smoke. Maintain adequate ventilation in the working area after spilling.

Conditions for safe storage, including any incompatibilities

Keep the product in its original container well sealed, in a dry and ventilated area, away from potential sources of ignition and protected from light.

Keep the container at 25°C.

Store in accordance with local/national regulations and follow the warnings on the label.

The storage must comply the ISO/TS 210

Storage temperature

Ambient.

Storage life

Stable under normal conditions.

Incompatible materials

None known.

**7.2 Specific end use(s)**

Not known.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**8.1 Control parameters**

8.1.1 Occupational Exposure Limits

No Occupational Exposure Limit assigned.

**8.2 Exposure controls**

8.2.1. Appropriate engineering controls

Use non-sparking ventilation systems, approved explosion-proof equipment, and intrinsically safe electrical systems. Use with ventilation, local exhaust ventilation or breathing protection. A washing facility/water for eye and skin cleaning purposes should be present.

8.2.2. Personal protection equipment

Eye Protection

Wear eye protection with side protection (EN166).



Skin protection

Wear protective clothing and gloves: Impervious gloves (EN 374).



Respiratory protection

A suitable mask with filter type A (EN14387 or EN405) may be appropriate.



Thermal hazards

None known.



8.2.3. Environmental Exposure Controls Spillages or uncontrolled discharges into watercourses must be alerted to the appropriate regulatory body.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

**9.1 Information on basic physical and chemical properties**

Physical state	Liquid
Colour	Grayish-green ambar
Odour	Dry-woody, almost cedrela-like odor, reminiscent of certain types of Cyperus oil
Melting point/freezing point	Not known. *
Boiling point or initial boiling point and boiling range	Not known. *
Flammability	Not known. *
Lower and upper explosion limit	Not known. *
Flash Point	Not known. *
Auto-ignition temperature	Not known. *
Decomposition Temperature	Not known. *
pH	Not known. *
Kinematic Viscosity	Not known. *
Solubility	Solubility (Water): Insoluble in water Solubility (Other): Miscible with ether, chloroform, glacial acetic acid.
Partition coefficient n-octanol/water (log value)	Not known. *
Vapour pressure	Not known. *
Density and/or relative density	0.9793 - 1.170 (20°C)
Optical rotation	-37° to 15°
Refractive index	1.5070 - 1.5246 (20°C)

\* There are no data available at the time of writing this document or it is not applicable due to the nature and danger of the product

**9.2 Other information**

None.

**9.3 Shelf-life**

When stored within advised conditions, re-test after 12 months then at 6 monthly intervals up to a maximum life of 60 months.

**SECTION 10: STABILITY AND REACTIVITY**

**10.1 Reactivity**

None anticipated.

**10.2 Chemical Stability**

Stable under normal conditions <25°C.

**10.3 Possibility of hazardous reactions**

No hazardous reactions known if used for its intended purpose.

**10.4 Conditions to avoid**

Heat, flames and other sources of ignition.

**10.5 Incompatible materials**

Oxidizing mineral acids, strong reducing agents, strong oxidizing agents.

**10.6 Hazardous decomposition products**

Carbon monoxide and other unidentified organic compounds may be formed upon combustion.

**SECTION 11: TOXICOLOGICAL INFORMATION**

**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**

Acute toxicity:	No information was found for Vetiver oil, and little is known about its major constituents.
Skin Corrosion / Irritation:	ECHA refers that it may cause skin irritation and may cause an allergic skin reaction.
Adverse skin reactions	No information was found for Vetiver oil, and little is known about its major constituents.
Serious eye damage/irritation:	ECHA refers that it may cause serious eye irritation.
Respiratory or skin sensitisation:	No information was found for Vetiver oil, and little is known about its major constituents.
Germ cell mutagenicity:	No information was found for Vetiver oil, and little is known about its major constituents.
Endocrine toxicity	No information was found for Vetiver oil, and little is known about its major constituents.
Carcinogenicity:	No information was found for Vetiver oil, and little is known about its major constituents.
Reproductive toxicity:	No information was found for Vetiver oil, and little is known about its major constituents.
STOT-single exposure:	No information was found for Vetiver oil, and little is known about its major constituents.
STOT-repeated exposure:	No information was found for Vetiver oil, and little is known about its major constituents.
Aspiration toxicity:	No information was found for Vetiver oil, and little is known
about its major constituents.	
LD50	No information was found for Vetiver oil, and little is known about its major constituents.

**11.2 Information on other hazards**

Not known.

**SECTION 12: ECOLOGICAL INFORMATION**

**12.1 Acute aquatic toxicity:**

May cause long-term adverse effects in the aquatic environment.

**12.2 Persistence and degradability:**

NA

**12.3 Bioconcentration Factor:**

NA

**12.4 Mobility in soil:**

NA

**12.5 Results of PBT and vPvB assessment:**

NA

**12.6 Other adverse effects:**

NA

**SECTION 13: DISPOSAL CONSIDERATIONS**

**Container disposal** Containers must be disposed of as hazardous waste. Do not reuse empty containers.

Empty residue into a suitable disposal site.

Do not empty into drains. Avoid release to the environment for specific instructions /Safety Data Sheets.

**Disposal conditions** Dispose of in accordance with all state and local environmental regulations. This material and its container must be disposed of in a safe way.

**SECTION 14: TRANSPORT INFORMATION**

**14.1 UN number or ID number**

UN No. 1169

**14.2 UN proper shipping name**

UN proper shipping name EXTRACTS, AROMATIC, LIQUID

**14.3 Transport hazard class(es)**

ADR/RID

ADR/RID Class 3

ADR Classification Code F1

Special Provisions 601

Limited Quantities 5 L

Excepted Quantities E1

Emergency Action Code 3Y

Mixed Packing Instructions for Packages P001 IBC03 LP01 R001

Special Packing Provisions for Packages

Mixed Packing Instructions for Packages MP19

Packing Instructions for Portable Tanks T2

Special Provisions for Portable Tanks TP1

Tank Code for Tanks LGBF

Special Provisions for Tanks

Vehicle for Tank Carriage FL

ADR Transport Category 3

Tunnel Restriction Code D/E

Special Provisions for Carriage - Packages V12

Special Provisions for Carriage - Bulk

Special Provisions for Carriage - Loading,

Unloading and Handling

Special Provisions for Carriage - Operation S2

ADR HIN 30

IMDG

IMDG Class 3

Special Provisions 601

Limited Quantities 5 L

Excepted Quantities E1

Mixed Packing Instructions for Packages P001 IBC03 LP01 R001

Special Packing Provisions for Packages

Packing Instructions for Portable Tanks T2

Special Provisions for Portable Tanks TP1

IMDG EMS F-E, S-D

Storage and Handling Category A

Segregation

Marine Pollutant

ICAO/IATA

IATA Proper Shipping Name EXTRACTS, AROMATIC, LIQUID

Excepted Quantities E1

Passenger and Cargo Aircraft Limited Y344

Quantities Packing Instructions

Passenger and Cargo Aircraft Limited 10L

Quantities Max net Qty

Passenger and Cargo Aircraft Packing 355

Instructions

Passenger and Cargo Aircraft Max net 60L

Qty

Cargo Aircraft Packing Instructions 366

Cargo Aircraft Max net Qty 220L

Special Provisions A3

Emergency Response Guidebook (ERG) 3L

Code

Labels

Labels



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**14.4 Packing group**

Packing group

III

**14.5 Environmental hazards**

Environmental hazards

Classified as a Marine Pollutant.

**14.6 Special precautions for user**

Special precautions for user

Not known.

**14.7 Maritime transport in bulk according to IMO instruments**

No information available

**SECTION 15: REGULATORY INFORMATION**

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

EU DIRECTIVES	REGULATION (EC) NO 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL OF 18TH 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.

**15.1 Chemical safety assessment**

Not available

**SECTION 16: OTHER INFORMATION**

- H304: May be fatal if swallowed and enters airways
- H315: Causes skin irritation.
- H317: May cause an allergic skin reaction
- H319: Causes serious eye irritation. .
- H411: Toxic to aquatic life with long
- H413: May cause long lasting harmful effects to aquatic life.

Abbreviations & Acronyms:

S D S	SAFETY DATA SHEET.
INCI	INTERNATIONAL NOMENCLATURE OF COSMETIC INGREDIENTS.
C A S	CHEMICAL ABSTRACT SERVICE.
IMDG	INTERNATIONAL MARITIME CODE FOR DANGEROUS GOODS
ADR	ACCORD EUROPEAN SUR LE TRANSPORT DES MARCHANDISES DANGEREUSES PAR ROUTE (EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY ROAD).
ICAO	INTERNATIONAL CIVIL AVIATION ORGANIZATION.
ADN	INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY INLAND WATERWAYS
GHS	GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION & LABELLING OF CHEMICALS
STOP	SPECIFIC TARGET ORGAN TOXICITY.

REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation
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**Recomendations:**

To keep out of reach of children and to not take internally.

**Key literature references and sources for data:**

1. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.
2. Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.
3. ECHA INFORMATION: <https://echa.europa.eu/pt/substance-information/-/substanceinfo/100.028.848>
4. Regulation (EC) No 2015/830 1907/2006 of the European Parliament and of the Council of 25 May 2015 on classification, labelling and packaging of substances and mixtures, amending and repealing.  
(PT)
  1. Regulamento (CE) n.º 1272/2008 do Parlamento Europeu e do Conselho, de 16 de dezembro de 2008, relativo à classificação, rotulagem e embalagem de substâncias e misturas, que altera e revoga as Diretivas 67/548 / CEE e 1999/45 / CE, e que altera o Regulamento (CE) n.º 1907/2006.
  2. Regulamento (CE) n.º 1907/2006 do Parlamento Europeu e do Conselho, de 18 de dezembro de 2006, relativo ao registo, avaliação, autorização e restrição de produtos químicos (REACH), que institui uma Agência Europeia dos Produtos Químicos, que altera a Diretiva 1999/45 / CE e revogando o Regulamento (CEE) n.º 793/93 do Conselho e o Regulamento (CE) n.º 1488/94 da Comissão, bem como a Diretiva 76/769 / CEE do Conselho e as Diretivas da Comissão 91/155 / CEE, 93/67 / CEE, 93/105 / CE e 2000/21 / CE.
  3. INFORMAÇÕES DA ECHA: <https://echa.europa.eu/en/substance-information/-/substanceinfo/100.028.848>
  4. Regulamento (CE) n.º 2015/830 1907/2006 do Parlamento Europeu e do Conselho, de 25 de maio de 2015, relativo à classificação, rotulagem e embalagem de substâncias e misturas, alteração e revogação.

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