

Material Safety Data Sheet

According to EU Regulation 1907/2006

ZielonyKlub.pl




Citronella Essential Oil

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product Identifier	
Product Name	Citronella Essential Oil
Biological Definition	The volatile oil obtained by the steam distillation of the semi-dried aerial parts of <i>Cymbopogon winterianus</i> Jowitt.
INCI Name	Cymbopogon Winterianus Herb Oil
Synonyms & Trade Names	-
Internal Product Code	A1299
CAS-No	91771-61-8
EINECS No.	294-957-7
1.2 Details of the supplier of the safety data sheet	
Supplier	http://zielonyklub.pl
Company	GREENACTION P.O. Box 133 25-351 Kielce NIP: PL6571011247 e-mail: kontakt@zielonyklub.pl
1.3 Details of the supplier of the safety data sheet	
Emergency Contact	112 (emergency), 998 (fire), 999 (ambulance), 42 631 47 24 (toxicological information in Poland)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture	
Classification (67/548/EEC)	Xn+N; R10-38-43-50/53-65, S24-37-61-62
Classification (EU 1272/2008)	UN-GHS: FL 3, AH 1, SCI 2, SS 1, EH A1,C1 EU-CLP: FL 3, AH 1, SCI 2, SS 1, EH A1,C1
2.2 Label elements	
Label in accordance with Regulation (EC) No 1272/2008	
GHS Label:	
Signal word:	Danger
Contains	Limonene, citronellal, linalool, geraniol, citronellol, geranyl acetate
Hazard Statements:	H315 Causes skin irritation H317 May cause an allergic skin reaction H318 Causes serious eye damage H411 Toxic to aquatic life with long-lasting effects.
Precautionary Statements:	P301/310 If swallowed immediately call a POISON CENTRE or doctor/physician P331 Do NOT induce vomiting P262 Do not get in eyes on skin or on clothing P280 Wear protective gloves/protective clothing/eye protection/face protection P273 Avoid release to the environment P391 Collect spillage P305/351/338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing
Supplementary Precautionary Statements:	-
Risk phrases and Safety phrases in full refer to Section 16 – Other Information	
2.3 Other hazards	
Adverse physio-chemical properties	Combustible but will not self-ignite
Adverse effects on human health	May cause sensitisation or damage to skin and eyes.

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SECTION 3: Composition/information on ingredients

3.1 Substances

%	INCI	
38	Citronellal	ATO 5(2500); SCI 2; EDI 2A; SS 1; EH A2,C2
22	Geraniol	ATO 5(4200); SCI 2; EDI 1; SS 1; EH A2
11	Citronellol	ATO 5(3450);ATD 5(2650); SCI 2; SS 1; EH A2
4	Geranyl acetate	SCI 3; EH A2,C2
4	Limonene	SCI 2; SS 1; A1,C1
1	Farnesol	SCI 2; EDI 2A, SS1
1	Linalool	ATO 5(3000), EDI 2A, EHA 3, SCI 2

3.2 Mixtures

EU INCI	N/A
US INCI	N/A

SECTION 4: First aid measures

4.1 Description of first aid measures

General Information	See categories below
Inhalation	Remove from exposure area to fresh air. Contact a doctor if necessary.
Ingestion	Wash mouth out with water and obtain medical advice immediately.
Skin Contact	Remove contaminated clothing. Wash thoroughly with soap and water. Seek medical advice if irritation persists or there is any sign of tissue damage.
Eye Contact	Flush with plenty of water and seek medical advice if necessary.

4.2 Most important symptoms and effects, both acute and delayed

N/A

4.3 Indication of any immediate medical attention and special treatment needed

N/A

SECTION 5: Fire fighting measures

5.1 Extinguishing Media

Use CO2, Dry Powder or Foam type extinguishers, spraying extinguishing media to base of flames. Do not use direct water jet on burning material.

5.2 Special hazards arising from the substance or mixture.

None

5.3 Advice for fire-fighters

Wear protective clothing. Avoid inhalation of vapours. Wear protective clothing. Avoid inhalation of vapours.

SECTION 6: Accidental release measures

6.1 Personal precautions

Maintain good occupational and personal hygiene. Avoid contact with skin and eyes.

6.2 Environmental precautions

Do not discharge directly into drains or soil. Keep away from surface and ground water.

6.3 Methods and material for containment and cleaning up

Soak up spillage with sand or other inert material. Transfer soaked material to suitable waste container and dispose according to prevailing regulations.

6.4 References to other sections.

Please refer to *Section 8 - Exposure controls/personal protection* for further information on personal precautions. Please refer to *Section 13 - Disposal Considerations* for further information on waste treatment.

SECTION 7: Handling and Storage

7.1 Precautions for safe handling

Apply good manufacturing practice & industrial hygiene practices, ensuring proper workplace ventilation. Observe good personal hygiene, and do not eat, drink or smoke whilst handling.

7.2 Conditions for safe storage, including any incompatibilities

Store in tightly closed original container, in a cool, dry & ventilated area away from heat sources & protected from light. Keep air contact to a minimum.

7.3 Specific end use(s)

N/A






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SECTION 8: Exposure controls/personal protection

8.1 Control Parameters

None

8.2 Exposure Controls

Eye protection		Use safety glasses.
Hand protection		Avoid all skin contact. Use chemically resistant gloves if required.
Respiratory Equipment		As required. Avoid breathing product vapour.
Hygiene Measures	Wash hands with soap & water after handling.	
Engineering Measures	Ensure good ventilation of working area.	

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	Clear Mobile liquid
Colour	Pale yellow to brownish-yellow
Odour	Reminiscent of citronellal
Relative Density	0.850 to 0.892 @ 20°C
Flash Point (°C)	91 c/c
Refractive Index	1.454 to 1.473 @ 20°C
Melting Point (°C)	Not determined
Boiling Point (°C)	222 @ 760mm Hg
Vapour Pressure	Not determined
Solubility in Water @20°C	38.94 mg/litre (est.)
Auto-ignition temperature (°C)	Not determined

9.2 Other information

N/A

SECTION 10: Stability and reactivity

10.1 Reactivity

It presents no significant reactivity hazards, by itself or in contact with water.

10.2 Chemical stability

Stable under normal temperature conditions.

10.3 Possibility of hazardous reactions

None

10.4 Conditions to avoid

Avoid storage temperatures above 25°C.

10.5 Incompatible materials

Avoid contact with strong acids, alkalis and oxidising agents.

10.6 Hazardous decomposition products

Liable to cause smoke & acrid fumes during combustion: carbon monoxide, carbon dioxide & other non-identified organic compounds may be formed.



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SECTION 11: Toxicological information

11.1 Information on toxicological effects.

Acute toxicity:	Acute Oral toxicity: "Low acute toxicity in rats" USEPA 1997. LD ₅₀ orl-rat: 7200mg/kg (:Pharmazie (1959) 14, 435). Acute Dermal toxicity: "Low dermal toxicity in rabbits" USEPA 1997. LD ₅₀ skn-rbt: 4700mg/kg skn-rbt : 500mg/24H: RIFM Monograph (1973) FCT 11, 1067 (Cymbopogon nardus only).
Skin corrosion / irritation:	No data available. Listed as Category 2 under GHS & CLP.
Serious eye damage/irritation:	Eye-rabbit 500 mg severe AJOPAA 29,1363 (1946). Category 1 under GHS & CLP. Wear eye/face protection when handling
Respiratory or skin sensitisation:	Acute Inhalation toxicity: "Low acute inhalation toxicity in rats" USEPA 1997. Listed as skin sensitiser Category 1 under GHS & CLP.
Germ cell mutagenicity:	No studies available. Not listed as mutagenic by No mammalian studies available. Not listed as carcinogenic by OSHA, IARC, NTP, ACGIH, OEHHA-Prop 65, RTECS.
Carcinogenicity:	No mammalian studies available. Not listed as carcinogenic by OSHA, IARC, NTP, ACGIH, OEHHA-Prop 65, RTECS
Reproductive toxicity:	No studies available. Not listed as reprotoxic by OSHA, IARC, NTP, ACGIH, OEHHA-Prop 65, RTECS.
STOT-single exposure:	No data available. Listed as Category 1 under GHS & CLP.
STOT-repeated exposure:	No data available
Aspiration hazard:	No data available. Not listed under GHS & CLP
Other information:	-

SECTION 12: Ecological information

12.1 Toxicity

No weight or evidence summary available.
Other information Citronella oil : Rainbow trout LC50 (96hr) 17.3 mg/L, Daphnia magns EC50 (96hr) 26.4mg/L.

12.2 Persistence and degradability

No data found

12.3 Bio-accumulative potential

No data found

12.4 Mobility in soil

Data not available.

12.5 Results of PBT and VPVB assessment

Data not available.

12.6 Other adverse effects

N/A

SECTION 13: Disposal considerations

13.1 Waste Treatment Methods

Do not release into the environment. Collect waste into suitable containers and contact hazardous chemical disposal company.

SECTION 14: Transport information

Warning Icon	
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE LIQUID NOS
UN No. Road	UN 3082
ADR Class	Class 9 Pk Gp III
Hazard No (ADR)	90
Hazchem Code	3Z
UN No. SEA	UN 3082
IMDG Class	Class 9
IMDG Pack Gr.	Pk Gp III
EMS	F-A,S-F
UN No. AIR	UN 3082
Air Class	Class 9
Air Pack Gr.	Pk Gp III



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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 18 th Dec 2006 Concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 199/45/EC and repealing Council Regulation Council Regulation (EEC) No793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, and 93/105/EEC and 2000/21/EC including amendments.
Statutory Instruments	The Chemicals (Hazard Information and Packaging for Supply Regulations 2009 (S.I. 2009 No 716).
Approved Code of Practice	Classification and Labelling of Substances and Preparations Dangerous for Supply. Safety Data Sheets for Substances and Preparations
Guidance Notes	Workplace Exposure Limits EH40. CHIP for everyone HSG 108.

15.2 Chemical safety assessment

An assessment has not been executed as this is not a hazardous material according to article 31 of REACH 1907/2006.

SECTION 16: Other information

Training instructions: Refer to possible hazard before use of this product.

Abbreviations and acronyms:

MSDS	Material Safety Data Sheet
INCI	International Nomenclature of Cosmetic Ingredients
CAS	Chemical Abstract Service
IMDG	International Maritime Code for Dangerous Goods
ADR	Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
RID	International Carriage of Dangerous Goods by Rail
ICAO	International Civil Aviation Organization
ADN	International Carriage of Dangerous Goods by Inland Waterways
GHS	Globally Harmonized System of Classification and Labelling of Chemicals
Trem Card	Transport Emergency Card
STOT	Specific Target Organ Toxicity
N/A	Not Available
Risk Phrases in full:	R38 Irritating to skin R41 Risk of serious damage to eyes R43 May cause sensitisation by skin contact R51/53 Toxic to aquatic organisms. May cause long-term damage in the aquatic environment.
Hazard Statements in full:	H315 Causes skin irritation H317 May cause an allergic skin reaction H318 Causes serious eye damage H411 Toxic to aquatic life with long-lasting effects

Complies with REACH guidance for SDS as circulated by ECHA 2011.

Disclaimer:

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Revisions in this document

Date	Revision Number
2016/04/14	0