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Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 10.06.2022

Version number 3.00

Revision: 10.06.2022

1 Identification of the substance/mixture and of the company/undertaking · Product identifier

- FIGURE REPRESENTED
- Trade name: <u>Citronella oil</u>
- · Article number: G446
- · Registration number The substance is exempt from UK REACH-registration.
- \cdot Relevant identified uses of the substance or mixture and uses advised against
- · Application of the substance / the mixture Ingredient for pharmaceutical drugs
- · Uses advised against No relevant information available.
- · Details of the supplier of the safety data sheet

Manufacturer/Supplier: CAELO Caesar & Loretz GmbH Herderstr. 31 D-40721 Hilden GERMANY

 Further information obtainable from: E-mail: info@caelo.de Tel.: +49210349940 (during regular opening hours)
 Emergency telephone number: Poison Information Center Bonn Venusberg-Campus 1, 53127 Bonn

2 Hazards identification

Tel: +49 (0) 228-192400

· Classification of the substance or mixture

- Classification according to Regulation (EC) No 1272/2008
- Acute Tox. 4 H302 Harmful if swallowed.
- Skin Irrit. 2 H315 Causes skin irritation.
- Eye Dam. 1 H318 Causes serious eye damage.
- Skin Sens. 1 H317 May cause an allergic skin reaction.

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

· Label elements

- Labelling according to Regulation (EC) No 1272/2008
- The product is classified and labelled according to the GB CLP regulation.
- Hazard pictograms



· Signal word Danger



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Trade name: Citronella oil

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Hazard statem		
H302 Harmful i		
H315 Causes s		
	serious eye damage.	
	se an allergic skin reaction.	
H411 Toxic to a	aquatic life with long lasting effects.	
Precautionary		
P101	If medical advice is needed, have product container or label at hand.	
P102	Keep out of reach of children.	
P103	Read carefully and follow all instructions.	
P305+P351+P	338 IF IN EYES: Rinse cautiously with water for several minutes. Remove co	ontact lenses
	present and easy to do. Continue rinsing.	
P310	Immediately call a POISON CENTER/doctor.	
P321	Specific treatment (see on this label).	
P330	Rinse mouth.	
P362+P364	Take off contaminated clothing and wash it before reuse.	
P501	Dispose of contents/container in accordance with local/regional/national/	international
Other hazards	regulations.	
vPvB: Not app		
vPvB: Not app	n/information on ingredients	
Compositio	n/information on ingredients	
Compositio Chemical cha	n/information on ingredients racterisation: Mixtures	
Compositio Chemical char CAS-No. 9177	n/information on ingredients racterisation: Mixtures 1-61-8	
Compositio Chemical char CAS-No. 9177 EC-No. 294-95	n/information on ingredients racterisation: Mixtures 1-61-8 i4-7	
Compositio Chemical char CAS-No. 9177 EC-No. 294-95 Description: M	n/information on ingredients racterisation: Mixtures 1-61-8 64-7 Aixture of substances listed below with nonhazardous additions.	
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Compositio Chemical chan CAS-No. 9177 EC-No. 294-95 Description: M Dangerous co CAS: 106-23-0	n/information on ingredients racterisation: Mixtures 1-61-8 i4-7 Mixture of substances listed below with nonhazardous additions. mponents: citronellal	>25–509
Compositio Chemical chan CAS-No. 9177 EC-No. 294-95 Description: M Dangerous co CAS: 106-23-0	n/information on ingredients racterisation: Mixtures 1-61-8 i4-7 Mixture of substances listed below with nonhazardous additions. mponents:	>25–509
Compositio Chemical char CAS-No. 9177 EC-No. 294-95 Description: M Dangerous co CAS: 106-23-0 EINECS: 203-3	n/information on ingredients racterisation: Mixtures 1-61-8 i4-7 Mixture of substances listed below with nonhazardous additions. mponents: citronellal 876-6 Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; Aquatic Chronic 3, H412	
Compositio Chemical char CAS-No. 9177 EC-No. 294-95 Description: M Dangerous co CAS: 106-23-0 EINECS: 203-3 CAS: 106-24-1	n/information on ingredients racterisation: Mixtures 1-61-8 i4-7 Mixture of substances listed below with nonhazardous additions. mponents: citronellal 876-6 Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; Aquatic Chronic 3, H412 geraniol	
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Compositio Chemical char CAS-No. 9177 EC-No. 294-95 Description: N Dangerous co CAS: 106-23-0 EINECS: 203-3 CAS: 106-24-1 EINECS: 203-3 CAS: 106-22-9	n/information on ingredients racterisation: Mixtures 1-61-8 i4-7 Mixture of substances listed below with nonhazardous additions. Imponents: citronellal 876-6 Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; Aquatic Chronic 3, H412 geraniol 877-1 Skin Sens. 1A, H317 dl-Citronellol	>20–259
Compositio Chemical char CAS-No. 9177 EC-No. 294-95 Description: M Dangerous co CAS: 106-23-0 EINECS: 203-3 CAS: 106-24-1 EINECS: 203-3 CAS: 106-22-9 EINECS: 203-3	n/information on ingredients racterisation: Mixtures 1-61-8 4-7 Mixture of substances listed below with nonhazardous additions. mponents: citronellal 876-6 Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; Aquatic Chronic 3, H412 geraniol 877-1 Skin Sens. 1A, H317 dl-Citronellol 875-0 Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	>20–259 >10–209
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Compositio Chemical char CAS-No. 9177 EC-No. 294-95 Description: M Dangerous co CAS: 106-23-0 EINECS: 203-3 CAS: 106-24-1 EINECS: 203-3 CAS: 106-22-9 EINECS: 203-3 CAS: 105-87-3 EINECS: 203-3 CAS: 138-86-3	n/information on ingredients racterisation: Mixtures 1-61-8 4-7 Mixture of substances listed below with nonhazardous additions. mponents: citronellal 376-6 Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; Aquatic Chronic 3, H412 geraniol 377-1 Skin Sens. 1A, H317 dl-Citronellol 375-0 Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317 geranyl acetate 341-5 Skin Irrit. 2, H315; Skin Sens. 1, H317; Aquatic Chronic 3, H412 dipentene	>20–25% >10–20% >2.5–5%
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Compositio Chemical char CAS-No. 9177 EC-No. 294-95 Description: M Dangerous co CAS: 106-23-0 EINECS: 203-3 CAS: 106-24-1 EINECS: 203-3 CAS: 106-22-9 EINECS: 203-3 CAS: 105-87-3 EINECS: 203-3 CAS: 138-86-3 EINECS: 205-3	n/information on ingredients racterisation: Mixtures 1-61-8 34-7 Mixture of substances listed below with nonhazardous additions. mponents: citronellal 376-6 Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; Aquatic Chronic 3, H412 geraniol 377-1 Skin Sens. 1A, H317 dl-Citronellol 375-0 Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317 geranyl acetate 341-5 Skin Irrit. 2, H315; Skin Sens. 1, H317; Aquatic Chronic 3, H412 dipentene 341-0 Flam. Liq. 3, H226; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Irrit. 2, H315; Skin Sens. 1, H317	>20–259 >10–209 >2.5–59 >2.5–59
Compositio Chemical char CAS-No. 9177 EC-No. 294-95 Description: M Dangerous co CAS: 106-23-0 EINECS: 203-3 CAS: 106-24-1 EINECS: 203-3 CAS: 106-22-9 EINECS: 203-3 CAS: 105-87-3 EINECS: 203-3 CAS: 138-86-3 EINECS: 205-3 CAS: 150-84-5	n/information on ingredients racterisation: Mixtures 1-61-8 4-7 Mixture of substances listed below with nonhazardous additions. mponents: citronellal 876-6 Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; Aquatic Chronic 3, H412 geraniol 877-1 Skin Sens. 1A, H317 dl-Citronellol 875-0 Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317 geranyl acetate 841-5 Skin Irrit. 2, H315; Skin Sens. 1, H317; Aquatic Chronic 3, H412 dipentene 841-0 Flam. Liq. 3, H226; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Irrit. 2, H315; Skin Sens. 1, H317 Citronellyl acetate	>20–259 >10–209 >2.5–59 >2.5–59
Compositio Chemical char CAS-No. 9177 EC-No. 294-95 Description: M Dangerous co CAS: 106-23-0 EINECS: 203-3 CAS: 106-24-1 EINECS: 203-3 CAS: 106-22-9 EINECS: 203-3 CAS: 105-87-3 EINECS: 203-3 CAS: 138-86-3 EINECS: 205-3 CAS: 150-84-5 EINECS: 205-7	n/information on ingredients racterisation: Mixtures 1-61-8 34-7 Mixture of substances listed below with nonhazardous additions. mponents: citronellal 876-6 Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; Aquatic Chronic 3, H412 geraniol 877-1 Skin Sens. 1A, H317 dl-Citronellol 875-0 Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317 geranyl acetate 841-5 Skin Irrit. 2, H315; Skin Sens. 1, H317; Aquatic Chronic 3, H412 dipentene 841-0 Flam. Liq. 3, H226; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Irrit. 2, H315; Skin Sens. 1, H317 Citronellyl acetate 775-0 Aquatic Chronic 2, H411; Skin Irrit. 2, H315	>20–25% >10–20% >2.5–5% >2.5–5% >2.5–5%
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Compositio Chemical char CAS-No. 9177 EC-No. 294-95 Description: M Dangerous co CAS: 106-23-0 EINECS: 203-3 CAS: 106-24-1 EINECS: 203-3 CAS: 106-22-9 EINECS: 203-3 CAS: 105-87-3 EINECS: 203-3 CAS: 138-86-3 EINECS: 205-3 CAS: 150-84-5 EINECS: 205-7 CAS: 78-70-6	n/information on ingredients racterisation: Mixtures 1-61-8 34-7 Mixture of substances listed below with nonhazardous additions. mponents: citronellal 876-6 Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; Aquatic Chronic 3, H412 geraniol 877-1 Skin Sens. 1A, H317 dl-Citronellol 875-0 Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317 geranyl acetate 841-5 Skin Irrit. 2, H315; Skin Sens. 1, H317; Aquatic Chronic 3, H412 dipentene 841-0 Flam. Liq. 3, H226; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Irrit. 2, H315; Skin Sens. 1, H317 Citronellyl acetate 775-0 Aquatic Chronic 2, H411; Skin Irrit. 2, H315	>20–25% >10–20% >2.5–5% >2.5–5% >2.5–5%



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Trade name: Citronella oil

	(Contd. of page 2)
CAS: 89-79-2 isopulegol	1–2.5%
EINECS: 201-940-6 Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319	
CAS: 97-53-0 Eugenol	1–2.5%
EINECS: 202-589-1 Eye Irrit. 2, H319; Skin Sens. 1, H317	
CAS: 639-99-6 Elemol	>1-<2.5%
EINECS: 211-360-5 Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Skin Sens. 1, H317	
CAS: 4602-84-0 Farnesol	>0.25-<1%
EINECS: 225-004-1 Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	
CAS: 87-44-5 beta-Caryophyllene	>0.1-<1%
EINECS: 201-746-1 Asp. Tox. 1, H304; Skin Sens. 1, H317	
CAS: 106-25-2 Nerol	>0.1-<1%
EINECS: 203-378-7 Eye Dam. 1, H318; Skin Irrit. 2, H315; Skin Sens. 1, H317	
CAS: 5392-40-5 Citral	>0.1-<1%
EINECS: 226-394-6 Skin Irrit. 2, H315; Skin Sens. 1, H317	
CAS: 586-62-9 terpinolene	>0.1-<0.25%
EINECS: 209-578-0 Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Acute 1, H400; Aquatic Chronic 1, H410	
Additional information: For the wording of the listed hazard phrases refer to section 16.	

4 First aid measures

· Description of first aid measures

• General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

• After inhalation:

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing: Call for a doctor immediately.
- · Information for doctor:
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Firefighting measures

- Extinguishing media
- · Suitable extinguishing agents:
- CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- For safety reasons unsuitable extinguishing agents: Water with full jet
- Special hazards arising from the substance or mixture

During heating or in case of fire poisonous gases are produced.



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Trade name: Citronella oil

- · Advice for firefighters
- Protective equipment: In case of fire wear suitable protective clothes and respiratory protection.
- · Additional information Prevent from entering into drains. Fire residues must be disposed in accordance with official regulations.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water. Inform respective authorities in case of seepage into water course or sewage system. Methods and material for containment and cleaning up:
- Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13.
- **Reference to other sections** See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

7 Handling and storage

- · Handling:
- · Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

- Prevent formation of aerosols.
- · Information about fire and explosion protection: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles:
- Tightly closed. Store at a dry place. At room temperature (+15°C to +25°C).
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Store receptacle in a well ventilated area.
- · Storage class: TRHS 510: 10 Combustible liquids
- Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

• Additional information about design of technical facilities: No further data; see item 7.

- · Control parameters
- · Ingredients with limit values that require monitoring at the workplace: CAS: 106-24-1 geraniol MAK (Germany) Dampf und Aerosol; vgl.Abschn.IV CAS: 138-86-3 dipentene

MAK (Germany) vgl.Abschn.IIb

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Trade name: Citronella oil

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CAS: 97-53-0 Eugenol MAK (Germany) als Dampf und Aerosol;vgl.Abschn.IV CAS: 4602-84-0 Farnesol MAK (Germany) vgl.Abschn.IV • Exposure controls

- · Personal protective equipment:
- General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work. Avoid contact with the skin. Avoid contact with the eyes and skin.
- **Respiratory protection:** Respiratory with filter.
- Protection of hands: Protective gloves
- Material of gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection: Tightly sealed goggles

9 Physical and chemical properties				
 Information on basic physical and chen General Information 	nical properties			
· Appearance:				
Form:	Fluid			
Colour:	Yellow			
Odour:	Characteristic			
· Odour threshold:	Not determined.			
· pH-value:	Not determined.			
 Change in condition Melting point/freezing point: Initial boiling point and boiling range: 	-20 °C 92 °C			
· Flash point:	78 °C			
· Flammability (solid, gas):	Not applicable.			
· Ignition temperature:	240 °C			
[·] Decomposition temperature:	Not determined.			
· Auto-ignition temperature:	Product is not selfigniting.			



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· Explosive properties:	Product does not present an explosion hazard.	
 Explosion limits: Lower: Upper: 	Not determined. Not determined.	
· Vapour pressure:	Not determined.	
 Density at 20 °C: Relative density Vapour density Evaporation rate 	0.884 g/cm ³ Not determined. Not determined. Not determined.	
 Solubility in / Miscibility with water: 	Not miscible or difficult to mix.	
· Partition coefficient: n-octanol/water:	Not determined.	
· Viscosity: Dynamic: Kinematic:	Not determined. Not determined.	
 Solvent content: Organic solvents: 	>2.5–5 %	
Solids content:	0.0 %	
· Other information	No further relevant information available.	

10 Stability and reactivity

· Reactivity No further relevant information available.

· Chemical stability

- · Thermal decomposition / conditions to be avoided:
- No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

· Information on toxicological effects

- · Acute toxicity
- Harmful if swallowed.
- · LD/LC50 values relevant for classification:

ATE (Acute Toxicity Estimates)

Oral LD50 20,000-50,000 mg/kg

CAS: 106-22-9 dl-Citronellol

Oral LD50 3,450 mg/kg (rat)

Dermal LD50 2,650 mg/kg (rabbit)



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CAS: 78-70-6 Linalool

Oral LD50 2,790 mg/kg (rat) Dermal LD50 5,610 mg/kg (rabbit)

Demai LD50 5,610 mg/kg

CAS: 97-53-0 Eugenol Oral LD50 1,930 mg/kg (rat)

CAS: 4602-84-0 Farnesol

Oral LD50 20,000 mg/kg (rat)

Dermal LD50 15,000 mg/kg (rat)

CAS: 5392-40-5 Citral

Oral LD50 4,960 mg/kg (rat)

- Primary irritant effect:
- · Skin corrosion/irritation
- Causes skin irritation.
- **Serious eye damage/irritation** Causes serious eye damage.
- Respiratory or skin sensitisation
- May cause an allergic skin reaction.
- Additional toxicological information:
- \cdot CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- \cdot Carcinogenicity Based on available data, the classification criteria are not met.
- Reproductive toxicity Based on available data, the classification criteria are not met.
- STOT-single exposure Based on available data, the classification criteria are not met.
- · STOT-repeated exposure Based on available data, the classification criteria are not met.
- · Aspiration hazard Based on available data, the classification criteria are not met.

12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- Persistence and degradability No further relevant information available.
- Behaviour in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- Mobility in soil No further relevant information available.
- · Ecotoxical effects:
- · Remark: Toxic for fish
- · Additional ecological information:
- · General notes:

Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Must not reach sewage water or drainage ditch undiluted or unneutralised.

Danger to drinking water if even extremely small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

- Toxic for aquatic organisms
- Results of PBT and vPvB assessment
- **PBT:** Not applicable.

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• vPvB: Not appl	icable.
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· Other adverse effects No further relevant information available.

13 Disposal considerations · Waste treatment methods · Recommendation Must not be disposed together with household garbage. Do not allow product to reach sewage system. · Uncleaned packaging: Recommendation: Disposal must be made according to local regulations. 14 Transport information · UN-Number · ADR, IMDG, IATA UN3082 · UN proper shipping name · ADR 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (DIPENTENE, Citronellyl acetate) ·IMDG ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (DIPENTENE, Citronellyl acetate, TERPINOLENE), MARINE POLLUTANT ·IATA Environmentally hazardous substance, liquid, n.o.s. (DIPENTENE, Citronellyl acetate) · Transport hazard class(es) · ADR, IMDG, IATA · Class 9 Miscellaneous dangerous substances and articles. · Label 9 · Packing group · ADR, IMDG, IATA Ш · Environmental hazards: · Marine pollutant: Symbol (fish and tree) · Special marking (ADR): Symbol (fish and tree) Special marking (IATA): Symbol (fish and tree) Special precautions for user Warning: Miscellaneous dangerous substances and articles. · Hazard identification number (Kemler code): 90 · EMS Number: F-A,S-F · Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable. · Transport/Additional information: · ADR · Limited quantities (LQ) 5L · Transport category 3 Tunnel restriction code (Contd. on page 9)



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according to 1907/2006/EC, Article 31 Printing date 10.06.2022 Version number 3.00 Revision: 10.06.2022 Trade name: Citronella oil (Contd. of page 8) ·IMDG · Limited quantities (LQ) 5L 15 Regulatory information Safety, health and environmental regulations/legislation specific for the substance or mixture LIST OF SUBSTANCES SUBJECT TO AUTHORISATION (ANNEX XIV) Not listed · REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3 · National regulations: Storage of hazardous substances in in nonstationary vessels (TRGS 510) (Germany) TRHS 510: 10 Combustible liquids · Chemical safety assessment: A Chemical Safety Assessment has not been carried out. **16 Other information** The information provided is based on our current level of knowledge. This MSDS has been compiled and is exclusively for this product intended. Reasons for alterations This version replaces all old versions. **Relevant phrases** H226 Flammable liquid and vapour. H302 Harmful if swallowed. H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H319 Causes serious eye irritation. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects. Abbreviations and acronyms: ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) MAL-Code: Måleteknisk Arbejdshygiejnisk Luftbehov (Regulation for the labeling concerning inhalation hazards, Denmark) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Flam. Liq. 3: Flammable liquids - Category 3 Acute Tox. 4: Acute toxicity - Category 4 Skin Irrit. 2: Skin corrosion/irritation - Category 2 Eye Dam. 1: Serious eye damage/eye irritation - Category 1 Eye Irrit. 2: Serious eye damage/eye irritation - Category 2 Skin Sens. 1: Skin sensitisation - Category 1 Skin Sens. 1A: Skin sensitisation - Category 1A Skin Sens. 1B: Skin sensitisation - Category 1B Asp. Tox. 1: Aspiration hazard - Category 1



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Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3
* Data compared to the previous version altered.