







# SAFETY DATA SHEET

## 01. IDENTIFICATION OF THE SUBSTANCE/PREPARATION & THE COMPANY/UNDERTAKING

<b>1.1 Product Identifier</b>					
Product Name		Citronella Oil.			
Biological Definition		Cymbopogon Winterianus Herb Oil is an essential oil obtained from the herbs of the plant, <i>Cymbopogon winterianus</i> , <i>Gramineae</i> .			
INCI Name		Cymbopogon Winterianus Herb Oil.			
Synonyms & Trade Names		-			
CAS-No	91771-61-8	EC No.	294-954-7	EINECS No.	294-954-7
<b>1.2 Relative identified uses of the substance or mixture and uses advised against</b>					
Suitable for cosmetic, flavour, fragrance and professional use only					
<b>1.3 Details of the supplier of the safety data sheet</b>					
Supplies for Candles, Swinton Bridge Industrial Estate, Whitelee Road, Swinton, S64 8BH . Email – customerservice@suppliesforcandles.co.uk					
<b>1.4 Emergency Tel. No.</b>		+ 44 (0) 1709 588579			

## 02. HAZARDS IDENTIFICATION

<b>2.1 Classification of the substance or mixture</b>					
The full text for all hazard statements displayed in section 16.					
Classification (EC 1272/2008)					
Physical hazards:		Not classified			
Health hazards:		Acute Tox. 4 – H302, Asp. Tox. 1 – H304, Skin Sens. 1B - H317, Eye Dam. 1 – H318			
Environmental hazards:		Aquatic Chronic 2 - H411			
*See section 16 for other information on product classification.					
<b>2.2 Label Elements</b>					
Label in accordance with (EC) No 1272/2008					
GHS05	GHS08	GHS07	GHS09		
					
Signal Word		Danger.			
Contains		d-Limonene, beta-Caryophyllene			
<b>Hazard Statements</b>					
H302 Harmful if swallowed. H304 May be fatal if swallowed and enters airways. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H411 Toxic to aquatic life with long lasting effects.					

<b>Precautionary Statements</b>					
P261 Avoid breathing vapours/spray.					

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P273 Avoid release to the environment.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.  
 P302+P352 IF ON SKIN: Wash with plenty of water.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P310 Immediately call a POISON CENTER/doctor.  
 P331 Do NOT induce vomiting.  
 P391 Collect spillage.  
 P501 Dispose of contents in accordance with local, state or national legislation.

#### Supplementary Precautionary Statements

P264 Wash hands and exposed skin thoroughly after handling.  
 P272 Contaminated work clothing should not be allowed out of the workplace.

### 2.3 Other Hazards

PBT or vPvB according to Annex XIII	Not classified as PBT or vPvB.
Adverse physio-chemical properties	No additional data available.
Adverse effects on human health	No additional data available.

## 03. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substance

≤ **43.00% (+)-Citonellal** CAS No: 2385-77-5 EC No: 219-194-5

Classification (EC 1272/2008) Skin Irrit. 2 - H315, Skin Sens. 1B - H317, Eye Irrit. 2 - H319

≤ **21.00% Geraniol** CAS No: 106-24-1 EC No: 203-377-1

Classification (EC 1272/2008) Skin Irrit. 2 - H315, Skin Sens. 1 - H317, Eye Dam. 1 - H318

≤ **12.74% Citronellol** CAS No: 106-22-9 EC No: 203-375-0

Classification (EC 1272/2008) Skin Irrit. 2 - H315, Skin Sens. 1 - H317, Eye Irrit. 2 - H319

≤ **6.50% beta-Caryophyllene** CAS No: 87-44-5 EC No: 201-746-1

Classification (EC 1272/2008) Asp. Tox. 1 - H304, Skin Sens. 1B - H317, Aquatic Chronic 4 - H413

≤ **1.00% Decanal** CAS No: 112-31-2 EC No: 203-957-4

Classification (EC 1272/2008) Eye Irrit. 2 - H319, Aquatic Chronic 3 - H412

**2.00 – 4.00% Geranyl Acetate** CAS No: 105-87-3 EC No: 203-341-5

Classification (EC 1272/2008) Skin Irrit. 2 - H315, Skin Sens. 1 - H317, Aquatic Chronic 3 - H412

**1.00 – 4.00% Citronellyl Acetate** CAS No: 150-84-5 EC No: 205-775-0

Classification (EC 1272/2008) Skin Irrit. 2 - H315, Aquatic Chronic 2 - H411

<p>≤ <b>3.76 % d-Limonene</b> CAS No: 5989-27-5 EC No: 227-813-5</p> <p>Classification (EC 1272/2008) Flam. Liq. 3 - H226, Asp. Tox. 1 - H304, Skin Irrit. 2 - H315, Skin Sens. 1 - H317, Aquatic Acute 1 - H400, Aquatic Chronic 1 - H410</p>
<p>≤ <b>3.00% Neo Iso Pulegol</b> CAS No: 96612-21-4 EC No: -</p> <p>Classification (EC 1272/2008) Acute Tox. 4 - H302, Skin Irrit. 2 - H315, Eye Irrit. 2 - H319</p>
<p>≤ <b>2.00% Iso Pulegol</b> CAS No: 89-79-2 EC No: 201-940-6</p> <p>Classification (EC 1272/2008) Acute Tox. 4 - H302, Skin Irrit. 2 - H315, Eye Irrit. 2 - H319</p>
<p>≤ <b>2.00% Citral</b> CAS No: 5392-40-5 EC No: 226-394-6</p> <p>Classification (EC 1272/2008) Skin Irrit. 2 - H315, Skin Sens. 1B - H317, Eye Irrit. 2 - H319</p>
<p>≤ <b>1.05% Eugenol</b> CAS No: 97-53-0 EC No: 202-589-1</p> <p>Classification (EC 1272/2008) Skin Sens. 1B - H317, Eye Irrit. 2 - H319</p>
<p>≤ <b>1.00% Linalool</b> CAS No: 78-70-6 EC No: 201-134-4</p> <p>Classification (EC 1272/2008) Skin Irrit. 2 - H315, Skin Sens. 1B - H317, Eye Irrit. 2 - H319</p>
<p>≤ <b>1.00 % Nerol</b> CAS No: 106-25-2 EC No: 203-378-7</p> <p>Classification (EC 1272/2008) Skin Irrit. 2 - H315, Skin Sens. 1B - H317, Eye Irrit. 2 - H319</p>
<p>≤ <b>1.00% Neryl Acetate</b> CAS No: 141-12-8 EC No: 205-459-2</p> <p>Classification (EC 1272/2008) Skin Irrit. 2 - H315; Skin Sens. 1B - H317, Aquatic Chronic 3 - H412</p>
<p>≤ <b>1.00% Farnesol</b> CAS No: 4602-84-0 EC No: 225-004-1</p> <p>Classification (EC 1272/2008) Skin Irrit. 2 - H315, Skin Sens. 1 - H317, Aquatic Acute 1 - H400, Aquatic Chronic 1 - H410</p>
<p>≤ <b>1.00% Decanal</b> CAS No: 112-31-2 EC No: 203-957-4</p> <p>Classification (EC 1272/2008) Eye Irrit. 2 - H319, Aquatic Chronic 3 - H412</p>

#### **04. FIRST AID MEASURES**

<b>4.1 Description of first aid measures</b>	
Inhalation	Move the exposed person to fresh air at once. Rinse nose and mouth with water. Get medical attention if any discomfort continues.
Ingestion	Ingestion may cause nausea and vomiting. Seek medical attention if irritation or symptoms persist. Do not induce vomiting.
Skin Contact	Remove affected person from source of contamination. Remove contaminated clothing. Wash the skin immediately with soap and water. Get medical attention if any discomfort continues.

Eye Contact	Remove victim immediately from source of exposure. Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes and get medical attention.
<b>4.2 Most important symptoms and effects, both acute and delayed</b>	No additional data available.
<b>4.3 Indication of any immediate medical attention and special treatment needed</b>	Treat symptomatically.

## **05. FIRE-FIGHTING MEASURES**

<b>5.1 Extinguishing Media</b>	Suitable extinguishing media: carbon dioxide, dry chemical, foam. Unsuitable extinguishing media: do not use water jet as an extinguisher, as this may scatter and spread fire.
<b>5.2 Special hazards arising from the product</b>	Suitable extinguishing media: carbon dioxide, dry chemical, foam. Unsuitable extinguishing media: do not use water jet as an extinguisher, as this may scatter and spread fire.
<b>5.3 Advice for firefighters</b>	Avoid inhalation of generated fumes or vapours. Wear self-contained breathing apparatus and appropriate protective clothing.


## **06. ACCIDENTAL RELEASE MEASURES**

<b>6.1 Personal precautions, protective equipment and emergency procedures</b>	Wear protective clothing as described in Section 8 of this safety data sheet. Handle the product using protective gloves resistant to the chemicals exposed. Avoid contact with skin and inhalation of its vapours or smoke. Maintain adequate ventilation in the working area after spilling.
<b>6.2 Environmental Precautions</b>	Do not discharge into drains, water courses or onto the ground.
<b>6.3 Methods and material for containment and cleaning up.</b>	Absorb with liquid binding material e.g. sand, diatomaceous earth, vermiculite. Collect in closed and suitable containers for disposal in accordance with local, state or national legislation. Prevent any material from entering drains or waterways. Wash spill site after removal with a detergent.
<b>6.4 Reference to other sections</b>	Refer to information in Sections 7, 8 and 13.

## **07. HANDLING AND STORAGE**

<b>7.1 Precautions for safe handling</b>	Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use. Do not eat, drink or smoke when using this product. Wear personal protective equipment. Do not breathe vapours or spray mist. Use only in area provided with adequate ventilation
<b>7.2 Conditions for safe storage, including any incompatibilities</b>	Store in tightly closed original container in a dry, cool and well-ventilated place. Keep in original container. Protect from light, including direct sunrays. Keep away from heat, sparks and open flame.
<b>7.3 Specific end use(s)</b>	No additional data available.

## 08. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters	
No additional information available.	
8.2 Exposure controls	
Protective Equipment	
	
Process Conditions	Provide eyewash station.
Engineering Measures	Provide adequate ventilation.
Respiratory Equipment	Generally unnecessary in a well ventilated area. If ventilation is insufficient, respiratory protection must be worn.
Hand Protection	Wear suitable protective gloves that are resistant to chemical agents in accordance with standard EN374.
Eye Protection	Avoid contact with eyes. Wear safety goggles in accordance with standard EN166.
Other Protection	Wear appropriate clothing to prevent any possibility of skin contact.
Hygiene Measures	Good personal hygiene practices are always advisable, especially when working with chemicals / oils. Do not eat, drink or smoke during use. Remove and wash contaminated clothing before re-using.
Personal Protection	Use of chemical resistant clothing is recommended when handling.
Skin Protection	Wear appropriate protective clothing to prevent skin contact. Work clothing worn by personnel should be laundered regularly. After contact with the product, all parts of the body that have been exposed must be washed thoroughly.
Environmental Exposure Controls	Avoid discharging into drainage water. Only eliminate by authorised companies.

## 09. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties	
Appearance	Clear liquid.
Colour	Pale yellow to brownish yellow.
Odour	Characteristic - reminiscent of citronellal.
Relative Density	Approx. 0.900 @ 20°C
Flash Point (°C)	75.0
Refractive Index	Approx. 1.470 @ 20°C
Melting Point (°C)	No additional data available.
Boiling Point (°C)	92 at 101 325 Pa
Vapour Pressure	0.011Pa
Solubility in Water @20°C	Not soluble.
Auto-ignition temperature (°C)	240
9.2 Other information	
No additional data available.	

## **10. STABILITY AND REACTIVITY**

<b>10.1 Reactivity</b>
Presents no significant reactivity hazards. Stable under normal temperature conditions and recommended use.
<b>10.2 Chemical stability</b>
Stable under the recommended handling and storage conditions.
<b>10.3 Possible hazardous reactions</b>
No additional data available.
<b>10.4 Conditions to Avoid</b>
Avoid heat, flames and other sources of ignition.
<b>10.5 Incompatible materials</b>
Avoid strong acids, alkali or oxidising agents.
<b>10.6 Hazardous Decomposition Products</b>
Not expected under normal temperature conditions and recommended use. Thermal decomposition may release/form oxides of carbon (carbon monoxide, carbon dioxide) and other toxic gases.

## **11. TOXOLOGICAL INFORMATION**

<b>11.1 Information on toxicological effects</b>	
Acute Toxicity	Product is not classified for acute oral toxicity by the CLP additivity calculation. However, according to REACH data the oral LD50 of Citronella Oil was found to be between 300 and 2000 mg/kg body weight. Therefore, the product should be classified for acute oral toxicity (H302 - Acute Tox. 4) in accordance with the criteria outlined in Annex I of CLP (1272/2008/EC). Acute dermal toxicity: LD50 > 2000 mg/kg body weight
Skin corrosion / irritation	Acute dermal toxicity does not indicate skin irritation up to 2000 mg/kg body weight. Based on this information product is not classified for skin corrosion or irritation.
Serious eye damage / irritation	Causes serious eye damage.
Respiratory or skin sensitisation	Skin - May cause an allergic skin reaction.
Germ Cell Mutagenicity	Not classified.
Carcinogenicity	Not classified.
Reproductive toxicity	Not classified.
STOT-single exposure	Not classified.
STOT-repeated exposure	Not classified.
Aspiration hazard	May be fatal if swallowed and enters airways.
Photo-toxicity	No additional data available.
Other Information	No additional data available.

## **12. ECOLOGICAL INFORMATION**


<b>12.1 Toxicity</b>
Toxic to aquatic life with long lasting effects.
<b>12.2 Persistence &amp; degradability</b>
Considered to be readily biodegradable.
<b>12.3 Bioaccumulation Potential</b>


No additional data available.
<b>12.4 Mobility in soil</b>
No additional data available.
<b>12.5 Results of PBT and vPvB Assessment</b>
Not classified as PBT or vPvB according to Annex XIII
<b>12.6 Other adverse effects</b>
Do not allow product to enter streams, sewers or other waterways.

### **13. DISPOSAL CONSIDERATIONS**

<b>13.1 Waste treatment methods</b>
Dispose of in compliance with all local and national regulations.

### **14. TRANSPORT INFORMATION**

<b>14.1 UN number</b>
UN No. Road      3082
UN No. SEA        3082
UN No. AIR        3082
<b>14.2 UN proper shipping name</b>
ENVIRONMENTALLY HAZARDOUS SUBSTANCE LIQUID N.O.S.
<b>14.3 Transport hazard class(es)</b>
<p><b>ADR/RID</b> ADR/RID– Class 9 ADR Classification Code – M6 Special provisions – 274 335 375 601 Limited quantities – 5L Expected quantities – E1 Emergency Action Code – •3Z</p> <p><b>IMDG</b> IMDG – Class 9 Special Provisions – 274 335 375 601 Limited quantities – 5L Expected quantities – E1 IMDG EMS – F-A, S-F Stowage and Handling – Category A</p> <p><b>ICAO/IATA</b> ICAO/IATA– Class 9 IATA proper shipping name - ENVIRONMENTALLY HAZARDOUS SUBSTANCE LIQUID N.O.S. Expected quantities – E1</p> <p>Transport Label:</p>


<b>14.4 Packing group</b>
ADR/RID Packing group: III IMDG Packing group: III ICAO Packing group: III
<b>14.5 Environmental hazards</b>
Environmentally Hazardous Substance/Marine Pollutant  
<b>14.6 Special precautions for user</b>
See sections 6 – 8.
<b>14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC code</b>
No additional data available.

## 15. REGULATORY INFORMATION

<b>15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture</b>
<p><u>Statutory Instruments</u> The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I. 2009 No. 716).</p> <p><u>Guidance Notes</u> Workplace Exposure Limits EH40. CHIP for everyone HSG(108).</p> <p><u>EU Legislation</u> 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, including amendments.</p>
<b>15.2 Chemical safety assessment</b>
No additional information available.

## 16. OTHER INFORMATION

Hazard and/or Precautionary Statements in Full	<p>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. H413 May cause long lasting harmful effects to aquatic life.</p>
Other Information	*The CLP additivity calculation includes classification H315 - Causes skin irritation (Skin Irrit. 2). However, REACH data shows product is not classified for skin irritation.



	Product is not classified for acute toxicity by the CLP additivity calculation. However, REACH data shows product should be classified as H302 - Harmful if swallowed (Acute Tox. 4).
Revision Date	06/05/2020
Reason for revision	New SDS.
Rev No/Repl, SDS Generated	03, replaces 02

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