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## Safety Data Sheet

# Organic Citronella Essential Oil (*Cymbopogon nardus*)

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

1.1 Product Identifier					
Product Name		Citronella Oil Organic			
Biological Definition		Cymbopogon Nardus Oil is the essential oil obtained by direct steam-distillation of the dried fresh grass citronella, <i>Cymbopogon nardus</i> (L.), Gramineae.			
INCI Name		Cymbopogon Nardus Oil			
Synonyms & Trade Names		-			
CAS-No	8000-29-1 / 89998-15-2	EC No.	289-753-6 / 289-753-6	EINECS No.	289-753-6 / 289-753-6
1.2 Relative identified uses of the substance or mixture and uses advised against					
No additional data available.					
1.3 Details of the supplier of the safety data sheet					
NHR Organic Oils, 24 Chatham Place, Brighton, BN1 3TN, UK. Email – nhrorganiccoils.com					
1.4 Emergency Tel. No.		0845 310 8066			

### 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture		
<p>The Full Text for all Hazard Statements is displayed in Section 16.</p> <p><b>ENVIRONMENT</b>            The product contains a substance which is harmful to aquatic organisms and which may cause long term adverse effects in the aquatic environment.</p> <p><b>HUMAN HEALTH</b>            May cause serious eye damage and skin irritation</p>		
Classification (EC 1272/2008)		
Physical and Chemical Hazards:	Not classified.	
Human health Asp:	Skin Irrit. 2 - H315; Eye Dam. 1 - H318; Skin Sens. 1 - H317	
Environment:	Aquatic Acute 2 - H401; Aquatic Chronic 2 - H411	
2.2 Label Elements		
Label in accordance with (EC) No 1272/2008		
GHS05 	GHS07 	GHS09 
Signal Word	Danger	
Contains	Citronellal, Citronellool, EUGENOL, Geranial, GERANIOL, Limonene	
Hazard Statements		

H315 Causes skin irritation.  
 H317 May cause an allergic skin reaction.  
 H318 Causes serious eye damage.  
 H401 Toxic to aquatic life.  
 H411 Toxic to aquatic life with long lasting effects.

#### Precautionary Statements

P273 Avoid release to the environment.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 P262 Do not get in eyes, on skin, or on clothing.  
 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

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
 P264 Wash ... thoroughly after handling.  
 P272 Contaminated work clothing should not be allowed out of the workplace.  
 P302+352 IF ON SKIN: Wash with plenty of soap and water.  
 P310 Immediately call a POISON CENTER or doctor/physician.  
 P321 Specific treatment (see ... on this label).  
 P332+313 If skin irritation occurs: Get medical advice/attention.  
 P333+313 If skin irritation or rash occurs: Get medical advice/attention.  
 P362 Take off contaminated clothing and wash before reuse.  
 P363 Wash contaminated clothing before reuse.  
 P391 Collect spillage.  
 P501 Dispose of contents/container to ...

### 2.3 Other Hazards

PBT or vPvB according to Annex XIII	No additional data available.
Adverse physio-chemical properties	No additional data available.
Adverse effects on human health	No additional data available.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2 Mixtures

≤ 60.0%      **Citronellal**      CAS-No.: 106-23-0 EC No.: 203-376-6

Classification (EC 1272/2008) Skin Irrit. 2 - H315, Skin Sens. 1 - H317, Aquatic Chronic 2 - H411

≤ 30.0%      **Citronellol**      CAS-No.: 106-22-9 EC No.: 203-375-0

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

≤ 5.0%      **Citronellyl Acetate** CAS-No.: 150-84-5 EC No.: 205-775-0

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

≤ 5.0%      **EUGENOL**      CAS-No.: 97-53-0 EC No.: 202-589-1

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

≤ 5.0%      **Farnesol**      CAS-No.: 4602-84-0 EC No.: 225-004-1

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

≤ 5.0%	<b>Geranial</b>	CAS-No.: EC No.: 205-476-5
Classification (EC 1272/2008) Skin Irrit. 2 - H315, Skin Sens. 1 - H317		
≤ 30.0%	<b>GERANIOL</b>	CAS-No.: 106-24-1 EC No.: 203-377-1
Classification (EC 1272/2008) Skin Irrit. 2 - H315, Eye Dam. 1 - H318, Skin Sens. 1 - H317		
≤ 5.0%	<b>Geranyl Acetate</b>	CAS-No.: 105-87-3 EC No.: 203-341-5
Classification (EC 1272/2008) Aquatic Chronic 2 - H411		
≤ 15.0%	<b>Limonene</b>	CAS-No.: 5989-27-5 EC No.: 227-813-5
Classification (EC 1272/2008) Flam. Liq. 3 - H226, Skin Irrit. 2 - H315, Skin Sens. 1 - H317, Asp. Tox. 1 - H304, Aquatic Acute 1 - H400, Aquatic Chronic 1 - H410		

#### 4. FIRST AID MEASURES

4.1 Description of first aid measures	
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.
4.2 Most important symptoms and effects, both acute and delayed	
No additional data available.	
4.3 Indication of any immediate medical attention and special treatment needed	
No additional data available.	

#### 5. FIRE-FIGHTING MEASURES

5.1 Extinguishing Media
Extinguishing media: Carbon dioxide (CO <sub>2</sub> ). Dry Chemical Powder. Foam.
5.2 Special hazards arising from the product
When heated and in case of fire, irritating vapours/gases may be formed.
5.3 Advice for firefighters
Special Fire Fighting Procedures Water spray should be used to cool containers. Protective equipment for fire-fighters Wear full protective clothing. Wear suitable respiratory equipment when necessary.

#### 6. ACCIDENTAL RELEASE MEASURES


6.1 Personal precautions, protective equipment and emergency procedures
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 inert, non-combustible, inorganic absorbant material, sweep up and remove to an approved disposal container. Extinguish all ignition sources. Avoid sparks, flames, heat and smoking.
<b>6.4 Reference to other sections</b>
Wear protective clothing as described in Section 8 of this safety data sheet.

## 7. HANDLING AND STORAGE

<b>7.1 Precautions for safe handling</b>
Observe good chemical hygiene practices. Do not eat, drink or smoke when using the product.
<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.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>8.1 Control parameters</b>	
No additional information available.	
<b>8.2 Exposure controls</b>	
Protective Equipment	
	
Process Conditions	Provide eyewash station.
Engineering Measures	Provide adequate ventilation. Observe Occupational Exposure Limits and minimise the risk of inhalation of vapours.
Respiratory Equipment	No specific recommendation made, but respiratory protection may still be required under exceptional circumstances when excessive air contamination exists.
Hand Protection	Use suitable protective gloves if risk of skin contact.
Eye Protection	If risk of splashing, wear safety goggles or face shield.
Other Protection	Wear appropriate clothing to prevent any possibility of skin contact.
Hygiene Measures	DO NOT SMOKE IN WORK AREA! Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash promptly with soap & water if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke.
Personal Protection	Use personal protection according to Directive 89/686/EEC.
Skin Protection	Wear apron or protective clothing in case of splashes.
Environmental Exposure Controls	Avoid discharging into drainage water. Only eliminate by authorised companies.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>9.1 Information on basic physical and chemical properties</b>	
Appearance	Clear liquid

Colour	Pale yellow to brownish yellow.
Odour	Characteristic.
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)	220.0 - 225.0
Vapour Pressure	0.8mm Hg 25c
Solubility in Water @20°C	1:2 on Ethanol 80c
Auto-ignition temperature (°C)	No additional data available.

## 9.2 Other information

No additional data available.

## 10. STABILITY AND REACTIVITY

### 10.1 Reactivity

Stable under the recommended temperature, handling and storage conditions.

### 10.2 Chemical stability

Stable under the recommended handling and storage conditions.

### 10.3 Possible hazardous reactions

No additional data available.

### 10.4 Conditions to Avoid

Avoid heat, flames and other sources of ignition.

### 10.5 Incompatible materials

Avoid strong acids, alkali or oxidising agents.

### 10.6 Hazardous Decomposition Products

In case of fire, dangerous decomposition products can be generated, such as carbon monoxide and dioxide and nitrogen fumes and oxides.

## 11. TOXOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

Acute Toxicity	Toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment.
Skin corrosion / irritation	May cause discomfort if swallowed. May cause sensitisation by skin contact.
Serious eye damage / irritation	Spray and vapour in the eyes may cause irritation and smarting.
Respiratory or skin sensitisation	In high concentrations, vapours may irritate throat and respiratory system and cause coughing.
Germ Cell Mutagenicity	No additional data available.
Carcinogenicity	No additional data available.
Reproductive toxicity	No additional data available.
STOT-single exposure	No additional data available.
STOT-repeated exposure	No additional data available.
Aspiration hazard	No additional data available.
Photo-toxicity	No additional data available.
Other Information	No additional data available.


**12. ECOLOGICAL INFORMATION**


<b>12.1 Toxicity</b>
We have no data regarding ecotoxicity, but it must be considered that this product may be dangerous for the environment.
<b>12.2 Persistence &amp; degradability</b>
No additional data available.
<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>
No additional data available.
<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>	
ADR/RID/ADN Class: 9 Miscellaneous dangerous substances and articles.	
IMDG Class: 9	
ICAO Class/Division: 9	
Transport Labels	
	
<b>14.4 Packing group</b>	
ADR/RID/ADN 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>	
EMS F-A-S-F Emergency Action Code 3Z Hazard No. (ADR) 90 Environmentally hazardous substance; miscellaneous dangerous substances. Tunnel Restriction Code (E)	
<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>	
<u>Statutory Instruments</u> The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716). <u>Guidance Notes</u> Workplace Exposure Limits EH40. CHIP for everyone HSG(108). <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.	
<b>15.2 Chemical safety assessment</b>	
No additional information available.	

**16. OTHER INFORMATION**

Hazard and/or Precautionary Statements in Full	H318 Causes serious eye damage. H319 Causes serious eye irritation. H315 Causes skin irritation. H226 Flammable liquid and vapour. H304 May be fatal if swallowed and enters airways. H317 May cause an allergic skin reaction. H411 Toxic to aquatic life with long lasting effects. H401 Toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. H400 Very toxic to aquatic life.
Other Information	None.
Revision Date	24/03/2016
Reason for revision	New SDS.
Rev No/Repl, SDS Generated	01

**DISCLAIMER: This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.**