



# Material Safety Data Sheet (MSDS)

## SECTION 1 : CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

<b>Product Name</b>	: Citronella Oil.
<b>Synonym</b>	: Sri Lanka Citronella Oil.
CAS #	: 8000-29-1
EINECS No	: 289-753-6
EC No	: 294-954-7
Category	: Flavor and Fragrance agent.
FEMA #	: 2308
FDA Reg. No	: 182.20
Nafta H. No	: 3301.29.6000
Rtecs No	: GE8750000
Method	: Abstract from <i>Cymbopogon Nardus</i> by Steam Distillation
Contact Information	: FAIR' n ORGANIC TRADE, Adriaen van der Doeslaan 49 Rotterdam, 3054EB Netherlands
Email	: info@ayurveda-healing.com

## SECTION 2: COMPOSITION AND INFORMATION ON INGREDIENTS

Major Chemical Chemical Name	STD Range
Camphene	5.00% to 10.00%
Limonene	5.00% to 9.00%
Citronellal	1.00% to 5.00%
Borneol	4.00% to 8.00%
Alpha-Murolene	3.00% to 8.00%
Geranyl acetate	2.00% to 9.00%
Citronellal	0.10% to 7.00%
Geraniol	15.00% to 27.00%

## SECTION 3: HAZARDS IDENTIFICATION

### Classification of the substance or mixture

#### Classification according to the Regulation (EC) No 1272/2008.

Skin corrosion/irritation, Hazard Category 2; Sensitisation — Skin, Hazard Category 1; Serious eye damage/eye irritation, Hazard Category 1; Hazardous to the aquatic environment — long-term hazard, category chronic 2.

#### Classification according to the Directive 67/548/EEC.

##### Hazard Symbols:

Xi: Irritant  
N: Dangerous for the environment

##### Risk Phrases:

R38: Irritating to skin.  
R41: Risk of serious damage to eyes.  
R43: May cause sensitisation by skin contact.



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R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.



**Signal word:** Danger

**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:**

P273: Avoid release to the environment.

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

P302+P352: IF ON SKIN: Wash with plenty of soap and 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 or doctor/physician.

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

**Other hazards**

Not available.

## SECTION 4: FIRST AID MEASURES

**Eye Contact:**

Contact with eyes can produce burning sensation. Irrigate with water immediately, continue flushing eyes with water for 15 minutes. Seek medical attention if irritation persists.

**Inhalation:**

Remove to fresh air. Give oxygen if breathing is labored and seek medical advice. Avoid casual breathing. Signs of overexposure are dizziness and nausea. Rinse mouth; dilute with milk or water and consult a physician immediately. Do not induce vomiting. Never give anything by mouth if victim is unconscious, is rapidly-losing or is Convulsing.

**Ingestion:**

**Skin Contact:**

Skin contact can produce irritation, or itching of the skin. Remove contaminated clothing Wash with soap and plenty of water. Seek medical attention if irritation persists.

## SECTION 5: FIRE – FIGHTING MEASURES

**Flash Point:**

46.0°C Combustible liquid.

**Unsuitable Extinguishing Media:**

Water Spray; Others not established.

**Extinguishing media:**

Carbon Dioxide, dry chemical or foam. Closed containers may build up pressure at elevated temperature

**Special Procedures:**

Determine the need to evacuate or isolate the area according to your local emergency plan.

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**Firefighting Hazards:**  
**Protective Equipment:**

None identified.  
Self-contained breathing apparatus and protective clothing should be worn when fighting fires involving essential oils or chemicals.

**Combustion Product:**

Carbon Monoxide, Carbon Dioxide

## SECTION 6: ACCIDENTAL RELEASE MEASURES

**Personal Precautions:**

Use of self-contained breathing apparatus is recommended for any major chemical spill. Refer also to section 8.

**Safety Precautions:**

Eliminate all ignition sources. Ventilate area. Determine the need to evacuate or isolate the area according to your local emergency plan.

**Environmental Precautions:**

Keep away from drains, surface and ground water. Report spills to appropriate Authorities if required.

**Methods For Cleaning Up:**

Contain and collect with inert absorbent material and place in suitable container for disposal. Comply with all federal, state, and local regulation. Wipe small spills with cloth. Clean with hot water and detergent.

## SECTION 7: HANDLING AND STORAGE

**Handling:**

Avoid inhalation and contact with skin and eyes. Good personal hygiene practices should be used. Wash after any contact, before breaks and meals, and at the end of the work period. Contaminated clothing and shoes should be cleaned before re-use.

**Storage:**

Containers should be kept closed in order to minimize contamination.

Store in a cool, dry, well ventilated place protected from light. Keep away from extreme heat and from freezing conditions and away from all sources of ignition. Make sure the material does not come into contact with substances listed as: "Materials to Avoid".

Keep in glass, suitable plastic, aluminum or lacquer-lined containers

## SECTION 8: EXPOSURE CONTROL / PERSONAL PROTECTION

**Control parameter**

- Keep cool condition. Higher moisture of the skin mean less permeable

**Appropriate Engineering**

- provide exhaust ventilation of other Engineering control to keep the air bone concentration of weeper below their respective threshold limit value ensure that the eye wash stations and safety showers are proximal to the work station location.

**Individual Protection**

- personal protective equipment
- General protective and hygienic measures.



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- Do not eat drink smock or sniff while working. Keep away from food stuffs beverages and feed immediately remove all solid and contaminated clothing wash hand before break and at the end of work avoid contact with the eye and skin

## Respiratory protection

- Use suitable respiratory protective device only when vapors are generated.

## Protection of Hands

- Protective Gloves
- The gloves material has to be impermeable and resistance to the product. Due to missing test no recommendation to the glove material can be given for the product. Selection of the gloves material on consideration the penetration time rate of the diffusion and the degradation.

## Eye protection

- Tidily seal goggle

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: Pale Yellow to Greenish Yellow Clear Liquid.
Odor Type	: Citrus
Odor Strength	: Medium (Recommend smelling in 10% solution or less)
Odor Description	: Fresh lime Sweet terpene
pH	: Not Applicable
Boiling Point	: Not Available
Flash Point	: 79.44°C/175.00°F
Evaporation Rate	: Not Available
Upper Flammability or Explosive Limit	: Not Available
Vapor Pressure	: Not Available
Vapor Density	: Not Available
Specific Gravity	: 0.8900 - 0.9200 @ 20°C
Refractive Index	: 1.4700 - 1.6000 @ 20°C
Optical Rotation	: -22°00 - 20°00 @ 20°C
Solubility	: Insoluble in cool water, hot water, Ethanol
Partition Coefficient : N/Octanol/water	: Not available
Auto/Ignition	: Not Available
Decomposition Temperature	: Not Available
Viscosity	: Not Available

## SECTION 10: STABILITY AND REACTIVITY DATA

<b>Stability:</b>	Chemically stable, hazardous material. This material presents no significant reactivity hazard.
<b>Conditions to Avoid:</b>	None established.
<b>Materials to Avoid:</b>	Strong acids, strong alkalis and oxidizing agents.
<b>Flammability:</b>	Flammable liquid.
<b>Hazardous Polymerization:</b>	Will not occur.
<b>Hazardous Combustion or Decomposition Products:</b>	Carbon monoxide and unidentified organic compounds may be formed during combustion.



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## SECTION 11: TOXICOLOGICAL INFORMATION

<b>Inhalation:</b>	Inhalation of high concentrations of vapor may result in irritation of eyes, nose and throat, headache, nausea, and dizziness.
<b>Skin Contact:</b>	Repeated or prolonged contact can cause redness, irritation and scaling of skin (Dermatitis). Adverse skin effects should be prevented by normal care and personal hygiene
<b>Eye Contact:</b>	May irritate eyes.
<b>Ingestion:</b>	Low order toxicity causing irritation of the stomach and intestines which results in nausea and vomiting.
<b>Medical Conditions Aggravated by Exposure:</b>	No Known toxicity. Avoid use during pregnancy. May aggravate dermatitis, psoriasis and other skin conditions.
<b>Chronic Toxicity:</b>	May cause allergic reactions on skin
<b>Carcinogenicity Data:</b>	None of the components of this material are listed as a carcinogen.
<b>Reproductive Toxicity:</b>	No adverse effects on reproduction are known.
<b>Acute Toxicity Values:</b>	
LD50 Rat [Oral]:	7200 mg/Kg.
LD50 Rabbit[Dermal]:	4700 mg/Kg.
LC50 [Inhalation]:	Not available.
<b>Short Term Toxicity:</b>	Not available.
<b>Long Term Toxicity:</b>	Not available.
<b>Human Exposure Tests:</b>	Not available.

## SECTION 12: ECOLOGICAL INFORMATION

### Eco toxicity

#### **Aquatic toxicity**

- Quantitative data on the ecological effect of this product are not available

#### **Remarks**

- Do not allow to enter water, waste water or soil
- Toxic to aquatic organisms

### **Persistence and degradability**

- Sensitivity to air, Light, Oxidizing Agent, Acid and Alkali however long term degradation product may be arise

### **Bio Accumulative pretention**

- This product is unlike to accumulate in the environment.

### **Mobility in soil**

- Some Little portion dissolve in the water and move

### **Other Adverse Effects**

- Not Available



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## SECTION 13: DISPOSAL CONSIDERATIONS

- Waste Material:** Place material and / or absorbent into sealed containers and dispose of in accordance with current applicable laws and regulations.  
Refer to local Authority advice.
- Contaminated Packaging:** Dispose of in accordance with current applicable laws and regulations.  
Refer to local Authority advice.
- Note:** Empty containers can have residues, gases and mists.  
Use the proper Waste Disposal Methods & Procedures for Empties as well.

## SECTION 14: TRANSPORT INFORMATION

### Transportation by road ADR

<b>UN Number:</b>	UN3082
<b>Proper Shipping Name:</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
<b>DG Class / Subsidiary Risk:</b>	9.
<b>Packaging Group:</b>	iii.
<b>Special Precautions:</b>	None established.
<b>Hazchem Code:</b>	Not allocated.
<b>Tunnel restriction code:</b>	(E)

### Maritime Transportation IMDG

<b>UN Number:</b>	UN3082.
<b>Packaging Group:</b>	iii.
<b>EMS Number:</b>	F-A,S-F.
<b>Marine Pollutant:</b>	Yes.
<b>Proper Shipping Name:</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

### Air Transportation ICAO-TI and IATA-DGR

<b>UN Number:</b>	UN3082
<b>Class:</b>	9.
<b>Packaging Group:</b>	iii.
<b>Proper Shipping Name:</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S

## SECTION 15: REGULATORY INFORMATION

- Safety, health and environmental regulations/legislation specific for the substance or mixture:**  
Substances are included in EINECS, ELINCS, NLP inventories or exempt.

## SECTION 16: OTHER INFORMATION

- This Citronella Oil has been tested and it conforms to our High Standard Quality requirements.
- The most rigorous processes are implemented to determine the purity and potency of sourced oils & raw materials.
- To reduce the irrelative effect of the oil blend with addible or Mineral oil.
- Recommendation for Citronella oil fragrance usage levels up to 5.0000 % in the fragrance concentrate.
- Recommendation for Citronella oil flavor usage levels up to 25.0000 ppm in the finished product



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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. FAIR' n ORGANIC TRADE shall not be held liable for any damage resulting from handling or from contact with the above product.

