



Plant's Power Inc  
3-2700 St.Clair Ave west  
Toronto, Ontario, M6N 1M2  
Contact: 1-416-766-1254

## MATERIAL SAFETY DATA SHEET

### Citronella Oil

#### Section 1: Product and Company Identification

Product Name: Citronella Oil

Botanical Name: *Cymbopogon Nardus*

INCI Name: Cymbopogon Nardus (Citronella) Oil

EINECS No.: 294-954-7

CAS No.: 8000-29-1

#### Contact information:

Plant's Power Inc 3-2700 St.Clair Ave west Toronto, Ontario M6N 1M2 Contact: 1-416-766-1254 <a href="http://www.PlantPower.ca">http://www.PlantPower.ca</a> <a href="mailto:contactus@plantpower.ca">contactus@plantpower.ca</a>	24 HOUR EMERGENCY TELEPHONE NUMBER: (647)-427-4480
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#### Section 2: Composition and Information on Ingredients

Composition

Name: Cymbopogon Nardus (Citronella) Oil

CAS No.: 8000-29-1

% by Weight: 100

#### Section 3: Hazards Identification

Routes of Entry

Eye Contact: Irritation will occur with possible damage

Skin Contact: May cause irritation or allergic dermatitis upon prolonged exposure

Inhalation: Inhalation may cause irritation in throat and lungs. High concentrations of vapor may cause anesthetic effects.

Ingestion: Harmful if swallowed

## Section 4: First Aid Measures

Eyes:	Flush with plenty of water or eye wash solution for 15 minutes. Get medical attention if irritation persists.
Skin:	Remove contaminated clothing. Wash with soap and flush with plenty of water. Seek medical attention if irritation persists.
Ingestion:	Administer water or milk to dilute. Seek medical attention immediately or call a poison control center.
Inhalation:	Avoid gross inhalation of fumes. Remove to fresh air and seek medical attention if needed.

## Section 5: Fire and Explosive

Flash Point (Method Used):	81°C Closed Cup
Extinguishing Media:	Dry Chemical, Carbon Dioxide, Foam
Unsuitable Media:	Water (except to cool containers)
Special Firefighting Procedures:	Fire fighters should wear positive pressure self-contained breathing apparatus. Toxic vapors may be released. Cool containers exposed to flame with water. Spray extinguishing media directly into base of fire.
Unusual Fire & Explosion Hazards:	None known
Hazardous Decomposition Materials:	Burning produces CO and CO <sub>2</sub>

## Section 6: Accidental Release Measures

Personal Protection:	Avoid ingestion Follow good industrial practice as to housekeeping, personal hygiene and avoidance of prolonged or repeated contact with the skin or eyes. Wear eye protection, gloves and aprons. Ventilate area well or wear approved respirators.
Methods for Cleaning Up:	Eliminate all sources of ignition. Ventilate area or wear approved respirators Prevent liquid from entering sewers Small spills can be wiped up with paper rags (place in closed metal waste container) Large spills can be absorbed onto non-flammable absorbent. Wash area with soap and water.

## Section 7: Handling and Storage

### Handling

**Safe Handling:** Avoid ingestion. Follow good industrial practice as to housekeeping, personal hygiene and avoidance of prolonged or repeated contact with the skin or eyes. Wear eye protection, gloves and aprons. Ventilate area well or wear approved respirators.

### Storage

#### Requirements for Storage Areas and

**Containers:** Store in an area that is cool, dry, and well-ventilated. Do not expose to temperatures over 60°C.

## Section 8: Exposure Controls/Personal Protection Engineering

**Threshold Limit Value:** Not established

**OSHA Permissible Limit:** Not established

**Engineering Controls:** Provide adequate ventilation. Safety showers and eye wash stations should be located near work areas.

**Work Practice Controls:** Personal hygiene is an important work practice exposure control measure and the following general measures should be taken when working with or handling this material:

(1) Do not store, use, and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored.

(2) Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics, or using the toilet.

(3) Wash exposed skin promptly to remove accidental splashes or contact with this material.

**Respiratory:** Avoid casual breathing of vapors

**Ventilation:** Local, mechanical exhaust in recommended

**Eye:** OSHA approved safety glasses

**Skin:** Wear gloves and clothing to avoid skin contact

## Section 9: Physical and Chemical Properties

**Physical State:** Liquid, Oil

**Color:** Clear yellow to pale brown

**Odor:** Characteristic of lemon, herbaceous

**Vapor Pressure (mm Hg.):** Not available

**Flash Point:** 81°C

**Boiling Point:** +215°C

**Melting Point:** NA

**Specific Gravity (H<sub>2</sub>O = 1):** 0.878 – 0.895

**Refractive Index @ 25°C:** 1.4660-1.4750

**Optical Rotation:** -5° to 0°

**Solubility in Water:** Insoluble

## Section 10: Stability and Reactivity

Stability:	This material is stable under normal conditions
Incompatibility (Materials to Avoid):	Avoid contact with strong oxidizing agents and avoid hot work and sources of ignition on or near empty containers.
Conditions to Avoid:	Avoid contact with sparks, flame and heat.
Hazardous Decomposition or Byproducts:	CO, CO <sub>2</sub> , smoke and unidentified organic compounds may be formed during combustion.
Hazardous Polymerization:	Will Not Occur

## Section 11: Toxicological Information

CAUTION: Liquid may be irritating to eyes and skin.

ACGIH TLV:	None established
OSHA PEL:	None established
Carcinogenicity:	NTP Monograph: None established IARC Monograph: None established
Acute Toxicity Data:	Oral LD50: > 5000 mg/kg [Rat] Dermal LD50: > 4700 mg/kg [Rabbit]
Inhalation LC50:	None established
Irritancy:	Not Available
Sensitization:	Not Available
Phototoxicity:	Not Available

## Section 12: Ecological Information

Aquatic Toxicity:	Toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment
Mobility:	Low mobility in the soil
Persistence:	Not available
Bio-accumulative Potential:	Not available

## Section 13: Disposal Considerations

Waste Disposal Methods: Dispose of according to local, state and federal regulations.

## Section 14: Transport Information

Customs Rate Code: 3301 29 41 00  
Land Transport: ADR/RID: Class: 9  
UN #: 3082  
Packing Group: III  
Label Name: Environmentally Hazardous Substance, Liquid, N.O.S.  
Maritime Transport: IMDG: Class: 9  
UN #: 3082  
Packing Group: III  
Label Name: Environmentally Hazardous Substance, Liquid, N.O.S.  
Marine Pollutant: Yes  
Air Transport: ICAO-TI/IATA-DGR:  
Class: 9  
UN #: 3082  
Packing Group: III  
Label Name: Environmentally Hazardous Substance, Liquid, N.O.S.

## Section 15: Other Regulatory Information

Federal & State Regulations: TSCA 8(b) inventory: Citronella Oil  
Other Regulations: OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).  
Other Classifications:  
WHMIS (Canada): Class B-3: Combustible liquid with a flash point between 37.8°C (100°F) and 93.3°C  
Class D-2A: Material causing other toxic effects (VERY TOXIC).  
DSCL (EEC): R38: Irritating to skin  
R41: Risk of serious damage to eyes  
HMIS (USA): Health Hazard: 2  
Fire Hazard: 2  
Reactivity: 0  
Personal Protection: h  
National Fire Protection Association  
(USA): Health Hazard: 2  
Flammability: 2  
Reactivity: 0  
Specific Hazard:  
Protective Equipment: Gloves  
Lab Coat  
Approved Vapor Respirator  
Splash Goggles

## **Section 16: Other Information**

### **Disclaimer:**

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Plant's Power be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Plant's Power has been advised of the possibility of such damages.

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