



fern&petal

Material Safety Data Sheet

Citronella Oil (*CYMBOPOGON WINTERIANUS*)

1. Product & Company Identification:

1.1. Product Identifiers:

Product Name: Citronella Oil

Product Number: 1051

CAS-No: 8000-29-1

1.2. Relevant identified uses of the substance or mixture and uses advised against:

Identified uses: Laboratory chemicals, Synthesis of substances

1.3. Details of the supplier of the safety data sheet:

Company: Fern & Petal

#206 - 12025 207A Street, Maple Ridge, BC, V2X 0R3

Telephone: (778) 668-3604

Email: info@fernandpetal.ca

2. Hazards Identification:

2.1. Classification of the substance or mixture

Flammable liquids (Category 4), H227

Skin Irritation (Category 2), H315

Serious eye damage (Category 1), H318

Skin sensitization (Category 1), H317

Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335

Acute aquatic toxicity (Category 3), H402

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2. GHS Label elements, including precautionary statements

Pictogram:



Signal word: Danger

Hazard statement(s):

H227	Combustible Liquid
H315	Causes Skin Irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H335	May cause respiratory irritation
H402	Harmful to aquatic life

Precautionary statement(s):

P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray
P264	Wash skin thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.

P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P304 + P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
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
P321	Specific treatment (see supplemental first aid instructions on this label).
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P362	Take off contaminated clothing and wash before reuse.
P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam or extinction
P403 + P233	Store in a well-ventilated place. Keep the container tightly closed.
P403 + P235	Store in a well-ventilated place. Keep cool
P501	Dispose of contents/container to an approved waste disposal point.

2.3. Hazards not otherwise classified (HNOC) or not covered by GHS

None

3. Composition/Information on Ingredients:

3.1. Mixtures:

Synonyms: Cymbopogon Winterianus

Component	Geraniol
CAS-No	106-24-1
EC-No	203-377-1
Classification	Skin Irrit. 2; Eye Dam. 1; Skin Sens. 1; Aquatic Acute 3; H315, H317, H318, H402
Concentration	>= 90 - <= 100%

Component	Geraniol
CAS-No	106-23-0
EC-No	203-376-6
Classification	Flam. Liq. 4; Skin Irrit. 2; Eye Irrit. 2A; Skin Sens. 1; STOT SE 3; Aquatic Acute 2; Aquatic Chronic 2; H227, H315, H317, H319, H335, H411
Concentration	>= 30 - < 50%

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. First Aid Measures:

4.1. Description of first aid measures:

General Advice:

Consult a physician. Show this safety data sheet to the doctor in attendance.

If Inhaled:

If breathed in, move the person into fresh air. If not breathing, give artificial respiration.

Consult a physician

In case of skin contact:

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact:

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed:

Do NOT induce vomiting. Never give anything by mouth to an unconscious person.

Rinse mouth with water. Consult a physician

4.2. Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3. Indication of any immediate medical attention and special treatment needed

No data available

5. Firefighting Measures

5.1. Extinguishing media

Suitable extinguishable media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide

5.2. Special hazards arising from the substance or mixture

Carbon oxides

5.3. Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4. Further Information

Use water spray to cool unopened containers.

6. Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures:

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas.

Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

For personal protection see section 8

6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Discharge into the environment must be avoided.

6.3. Methods and materials for containment cleanup

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place it in a container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal.

6.4. Reference to other sections

For disposal see section 13

7. Handling and Storage

7.1. Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

For precautions see section 2.2

7.2. Conditions for safe storage, including any incompatibilities

Keep the container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

7.3. Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. Exposure controls/personal protection

8.1. Control parameters

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

Hazardous components without workplace control parameters.

8.2. Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of the workday.

Personal protective equipment:

Eye/face protection

Tightly fitting safety goggles. Faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching the glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry Hands.

Full contact

Material:	Nitrile-Rubber
Minimum Layer Thickness:	0.4mm
Break through time:	480 min
Material tested:	Camatril® (KCL 730 / Aldrich Z677442, Size M)

Splash Contact

Material:	Nitrile-Rubber
Minimum Layer Thickness:	0.2mm
Break through time:	30 min
Material tested:	Dematril® P (KCL 743 / Aldrich Z677388, Size M)
Data Source:	KCL GmbH, D-36124 Eichenzell, +49 (0)6659 87300 sales@kcl.de
Test Method:	EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific situation.

Body protection

Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator.

Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environment exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

9. Physical and Chemical Properties

9.1. Information on Basic Physical and Chemical Properties

9.1.1.	Appearance:	Form: Clear, Liquid Colour: Light Yellow
9.1.2.	Odour:	No Data Available
9.1.3.	Odour Threshold:	No Data Available
9.1.4.	pH:	No Data Available
9.1.5.	Melting Point / Freezing Point:	No Data Available
9.1.6.	Initial Boiling Point & Boiling Range:	231°C (448 °F) at 1,013 hPa (760 mmHg)
9.1.7.	Flash Point:	87.8°C (190.0 °F) - closed cup
9.1.8.	Evaporation Rate:	No Data Available
9.1.9.	Flammability Rate:	No Data Available
9.1.10.	Flammability (solid, gas):	No Data Available
9.1.11.	Upper/Lower flammability or Explosive Limits:	No Data Available
9.1.12.	Vapour Pressure:	No Data Available
9.1.13.	Vapour Density:	No Data Available
9.1.14.	Relative Density:	(See Certificate of Analysis)
9.1.15.	Water Solubility:	No Data Available
9.1.16.	Partition Coefficient:	No Data Available
9.1.17.	Auto-Ignition Temperature:	No Data Available
9.1.18.	Decomposition Temperature:	No Data Available
9.1.19.	Viscosity:	No Data Available
9.1.20.	Explosive Properties:	No Data Available

9.1.21. **Oxidizing Properties:**

No Data Available

9.2. Other Safety Information

No Data Available

10. Stability and Reactivity

10.1. Reactivity

No Data Available

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

No Data Available

10.4. Conditions to avoid

Heat, Fumes and Sparks

10.5. Incompatible Materials

Strong bases, Strong oxidizing agents, Strong acids, Acid chlorides, Acid anhydrides

10.6. Hazardous decomposition products

Other decomposition products: No Data Available

In the event of fire: See section 5

11. Toxicological Information

11.1. Information on toxicological effects

Carcinogenicity:

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IRAC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA; No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity:

No Toxicity to Reproduction

Specific Target Organ Toxicity - Single Exposure

No Data Available.

Specific target organ toxicity - repeated exposure

No Data Available

Aspiration Hazard

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

Additional Information:

RTECS: No Data Available

To the best of our knowledge, the chemical, physical, and toxicological properties have

not been thoroughly investigated.

12. Ecological Information

12.1. Toxicity

No Data Available

12.2. Persistence and Degradability

No Data Available

12.3. Bioaccumulative potential

No Data Available

12.4. Mobility in Soil

No Data Available

12.5. Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6. Other Adverse Effects

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic life.

13. Disposal Considerations

13.1. Waste treatment methods

Product

Contact a licensed professional waste disposal service to dispose of this material. This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated Packaging

Dispose of as unused product

14. Transportation Information

14.1. DOT (US)

NA-Number:	1993
Class:	NONE
Packing Group:	III
Proper Shipping Name:	Combustible Liquid, n.o.s (Geraniol, Citronella)
Reportable Quantity (RQ):	
Poison Inhalation Hazard:	No

14.2. IMDG

Not Dangerous Goods

14.3. IATA

Not Dangerous Goods

15. Regulatory Information

15.1. SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

15.2. SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

15.3. SARA 311/312 hazards

Fire Hazard, Acute Health Hazard

16. Other Information

16.1. Full text of H-Statements referred to under sections 2 and 3

Aquatic Acute:	Acute aquatic toxicity
Aquatic Chronic:	Chronic aquatic toxicity
Eye Dam:	Serious eye damage
Eye Irrit:	Eye Irritation
H227:	Combustible Liquid
H315:	Causes skin irritation
H317:	May cause an allergic skin reaction
H318:	Causes serious eye damage
H319:	Causes serious eye irritation
H335:	May cause respiratory irritation
H402:	Harmful to aquatic life.
H411:	Toxic to aquatic life with long lasting effects.
Skin Irrit:	Skin Irritation
Skin Sens:	Skin Sensitization
STOT SE:	Specific target organ toxicity - single exposure

HMIS Rating:

Health Hazard: 2

Chronic Health Hazard:

Flammability: 2

Physical Hazard: 0

NFPA Rating:

Health Hazard: 2

Fire Hazard: 2

Reactivity Hazard: 0

Further information:

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. Fern & Petal shall not be held liable for any damage resulting from handling or from contact with the above product.