



fern&petal

Material Safety Data Sheet

Lemongrass Oil (*Cymbopogon flexuosus*)

1. Product & Company Identification:

1.1. Product Identifiers:

Product Name: Lemongrass Oil

Product Number: 1127

CAS-No: 8007-02-1

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

Identified uses: Laboratory chemicals, Manufacture 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

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Flammable liquids (Category 4), H227

Skin irritation (Category 2), H315

Eye irritation (Category 2A), H319

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

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: Warning

Hazard statement(s):

| | |
|-------------|----------------------------------|
| H227 | Combustible Liquid |
| H315 | Causes skin irritation |
| H319 | Causes serious eye irritation |
| H335 | May cause respiratory irritation |

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 |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |
| P303 + 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 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. |
| P312 | Call a POISON CENTER or doctor/physician if you feel unwell |
| P321 | Specific treatment (see supplemental first aid instructions on this label). |
| P332 + P313 | If skin irritation occurs: Get medical advice/attention |
| P337 + P313 | If eye irritation persists: 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 for extinction |
| P403 + P233 | Store in a well-ventilated place. Keep container tightly closed. |
| P403 + P235 | Store in a well-ventilated place. Keep cool. |
| P405 | Store locked up. |
| 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. Substances:

Synonyms: Cymbopogon Flexuosus

CAS-No: 8007-02-1

3.2. Hazardous components

| | |
|----------------|--|
| Component | Lemongrass Oil |
| Classification | Flam. Liq. 4; Skin Irrit. 2; Eye Irrit. 2A; STOTE SE 3; H227, H315, H319, H335 |
| Concentration | <= 100% |

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. Move out of the dangerous area.

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

No Data Available

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.

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 buildup 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.

Recommended storage temperature 2 - 8° C

Light Sensitive.

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

| Component | Lemongrass Oil | Value | Control Parameters | Basis |
|-----------------|----------------|-------|-----------------------------|--|
| Oil, Lemongrass | 8007-02-1 | TWA | 10.000000 mg/m ³ | USA. NIOSH Recommended Exposure Limits |
| | | | 5.000000 mg/m ³ | USA. NIOSH Recommended Exposure Limits |

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 workday.

Personal protective equipment:

Eye/face protection

Safety glasses with side-shields conforming to EN166. 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: Butyl-Rubber
Minimum Layer Thickness: 0.3mm
Break through time: 480 min
Material tested: Butoject® (KCL 897 / Aldrich Z677647,
Size M)

Splash Contact

Material: Butyl Rubber
Minimum Layer Thickness: 0.3mm
Break through time: 480 min
Material tested: Butoject® P (KCL 897 / Aldrich

Z677647,

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

Impervious clothing, Flame retardant antistatic protective clothing. 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: Liquid |
| 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: | 244°C (435° F) |
| 9.1.7. | Flash Point: | 90°C (194°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, flames and sparks.

10.5. Incompatible Materials

No Data Available

10.6. Hazardous decomposition products

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 Data Available

Specific Target Organ Toxicity - Single Exposure

Inhalation - May cause respiratory irritation.

Specific target organ toxicity - repeated exposure

No Data Available

Aspiration Hazard

No Data Available

Additional Information:

RTECS: OG8257000

Dermatitis, 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

No Data Available

13. Disposal Considerations

13.1. Waste treatment methods

Product

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. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated Packaging

Dispose of as unused product

14. Transportation Information

14.1. DOT (US)

| | |
|----------------------------------|---|
| UN-Number: | 1993 |
| Class: | NONE |
| Packing Group: | III |
| Proper Shipping Name: | Combustible Liquids, n.o.s (Oils, Lemongrass) |
| 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

| | |
|--------------------|----------------------------------|
| Eye Irrit: | Eye Irritation |
| Flam. Liq: | Flammable Liquid |
| H227: | Combustible Liquid |
| H315: | Cause skin irritation |
| H319: | Causes serious eye irritation |
| H335: | May cause respiratory irritation |
| Skin Irrit: | Skin Irritation |

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.