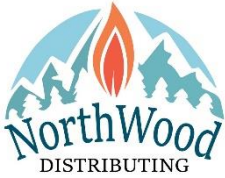


# SAFETY DATA SHEET

DATE ISSUED :	3/24/2023



## 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** Lemongrass Oil

**CHEMICAL NAME:** Cymbopogon flexuosus, oil

**CAS:** 8007-02-1

**EC Number:** 292-161-9

**FEMA Number:** 2624

**PRODUCT RECOMMENDED USE:** Aromatic Ingredient(s). For Industrial Use Only.

**RESTRICTIONS ON USE:** Do not ingest as such. Avoid eye contact.

### MANUFACTURER

NorthWood Distributing, LLC

201 N Meridian Street

Belle Plaine, MN 56011

[customercare@northwoodcandle.com](mailto:customercare@northwoodcandle.com)

952-679-4058

## 2. HAZARDS IDENTIFICATION

### CLASSIFICATION:

Skin corrosion/irritation,

Sensitization — Skin

Serious Eye Damage/Eye Irritation

Flammable Liquids

Category 2;

Category 1A;

Category 1;

Category 4

### GHS LABEL ELEMENTS:

#### HAZARD PICTOGRAM



**SIGNAL WORD:** Danger

**HAZARD STATEMENTS:**

H227	Combustible liquid, category 4
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye damage
H335	May cause respiratory irritation.
H412	Hazardous to the aquatic environment — long-term hazard, category chronic 3

**PRECAUTIONARY STATEMENTS:**

P403 + P235	Store in a well-ventilated place. Keep cool.
P264	Wash skin thoroughly after handling.
P261	Avoid breathing dust/fume/gas/mist/vapors/spray
P362	Take off contaminated clothing and wash before reuse.
P210	Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P280	Wear protective gloves/eye protection/face protection.
P501	Dispose of contents/container to an approved waste disposal plant
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P302 + P352	IF ON SKIN: Wash with plenty of water and soap
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention
P370 + P378	In case of fire: Use CO <sub>2</sub> , dry chemical, or foam to extinguish

**OTHER INFORMATION:**

May be harmful in contact with skin. Toxic to aquatic life with long lasting effects. Toxic to aquatic life.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	CAS Number	Weight %	GHS Classification
Citral	5392-40-5	80% to 90%	Acute Tox. Dermal 5 (H313) Skin Irrit. 2 (H315) Eye Irrit. 2A (H319) Skin Sens. 1 (H317) Aquatic Acute 2 (H401)
Geraniol	106-24-1	5.0% to 10%	Skin Sens. 1B (H317) Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Aquatic Acute 3 (H402) Acute Tox. Oral 5 (H303)
Geranyl acetate	105-87-3	5.0% to 10%	Skin Sens. 1B (H317) Skin Irrit. 2 (H315) Aquatic Chronic 3 (H412) Aquatic Acute 2 (H401)
beta-Caryophyllene	87-44-5	1.0% to 5.0%	Skin Sens. 1B (H317) Asp. Tox. 1 (H304) Aquatic Chronic 4 (H413)
Limonene	5989-27-5	1.0% to 5.0%	Flam. Liq. 3 (H226) Skin Irrit. 2 (H315) Skin Sens. 1B (H317) Asp. Tox. 1 (H304) Aquatic Acute 1 (H400)

			Aquatic Chronic 3 (H412)
Camphene	79-92-5	1.0% to 5%	Flam. Sol. 2 (H228) Eye Irrit. 2B (H320) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)
Linalool	78-70-6	1.0% to 5%	Flam. Liq. 4 (H227) Acute Tox. Oral 5 (H303) Skin Irrit. 2 (H315) Eye Irrit. 2A (H319) Skin Sens. 1B (H317) Aquatic Acute 3 (H402)
Citronellal	106-23-0	0.1% to 1.0%	Flam. Liq. 4 (H227) Acute Tox. Oral 5 (H303) Acute Tox. Dermal 5 (H313) Skin Irrit. 2 (H315) Eye Irrit. 2A (H319) Skin Sens. 1 (H317) Aquatic Acute 2 (H401)
Nerol	106-25-2	0.1% to 1.0%	Acute Tox. Oral 5 (H303) Skin Irrit. 2 (H315) Eye Irrit. 2A (H319) Skin Sens. 1B (H317) Aquatic Acute 2 (H401)
Citronellol	106-22-9	0.1% to 1.0%	Acute Tox. Oral 5 (H303) Acute Tox. Dermal 5 (H313) Skin Irrit. 2 (H315) Eye Irrit. 2A (H319) Skin Sens. 1B (H317) Aquatic Acute 2 (H401)
Isoeugenol	97-54-1	0.1% to 1.0%	Acute Tox. Oral 4 (H302) Acute Tox. Dermal 4 (H312) Acute Tox. Inhalation - dust and mist 4 (H332) Skin Irrit. 2 (H315) Eye Irrit. 2A (H319) Skin Sens. 1A (H317) STOT SE 3 (H335) Aquatic Acute 2 (H401)
alpha-Pinene	80-56-8	0.1% to 1.0%	Flam. Liq. 3 (H226) Acute Tox. Oral 4 (H302) Skin Irrit. 2 (H315) Skin Sens. 1B (H317) Asp. Tox. 1 (H304) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)
Farnesol	4602-84-0	0.1% to 1.0%	Skin Irrit. 2 (H315) Eye Irrit. 2A (H319) Skin Sens. 1B (H317)

#### 4. FIRST AID MEASURES

**MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED:**

Burning sensation, itching, rashes, hives.

**EYES:**

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.

**SKIN:**

Remove contaminated clothing. Wash affected areas with plenty of soap and water. If irritation develops, seek medical attention.

**INGESTION:**

If swallowed, rinse mouth with water. Seek medical advice immediately and show this container or label. Do NOT induce vomiting. Rinse mouth with water and obtain medical advice.

**INHALATION:**

Remove to fresh air. Get medical attention immediately if symptoms occur.

**SELF-PROTECTION OF THE FIRST AID:**

Remove all sources of ignition. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Wear personal protective clothing (see section 8). Avoid contact with skin, eyes or clothing.

**NOTE TO PHYSICIANS:**

May cause sensitization in susceptible persons. Treat symptomatically

#### 5. FIRE FIGHTING MEASURES

**SUITABLE EXTINGUISHING MEDIA:** Dry chemical. Carbon dioxide (CO<sub>2</sub>). Water spray. Alcohol resistant foam. CAUTION: Use of water spray when fighting fire may be inefficient.

**UNSUITABLE EXTINGUISHING MEDIA:** Do not scatter spilled material with high pressure water streams.

**SPECIAL HAZARDS ARISING FROM THE SUBSTANCE /MIXTURE:** Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray. Product is or contains a sensitizer. May cause sensitization by skin contact.

**DURING FIREFIGHTING:** Water may be ineffective.

**HAZARDOUS COMBUSTION PRODUCTS:** Carbon Dioxide, Carbon Monoxide and other unidentified organic compounds.

**SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTION FOR FIRE FIGHTERS:** Treat as a chemical fire. Self-contained breathing apparatus and protective clothing should be worn when fighting fires involving chemicals.

**ADVICE FOR FIREFIGHTERS:** Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

**SENSITIVITY TO STATIC DISCHARGE:** Yes

## 6. ACCIDENTAL RELEASE MEASURES

### PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT, AND EMERGENCY PROCEDURES:

#### PERSONAL PRECAUTIONS:

Evacuate personnel to safe areas. Use personal protective equipment as required. See section 8 for more information. Take precautionary measures against static discharges. Do not touch or walk through spilled material. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Keep people away from and upwind of spill/leak.

#### OTHER INFORMATION:

Refer to protective measures listed in Sections 7 and 8

### METHODS AND MATERIAL FOR CONTAINMENT AND CLEAN UP:

Stop leak if you can do it without risk. Do not touch or walk through spilled material. Dike far ahead of liquid spill for later disposal. Take precautionary measures against static discharges. Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers

## 7. HANDLING AND STORAGE

### PRECAUTIONS FOR SAFE HANDLING:

Use personal protection equipment. Do not breathe vapor or mist. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharges. Use with local exhaust ventilation. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. In case of insufficient ventilation, wear suitable respiratory equipment. Take off contaminated clothing and wash before reuse.

### STORAGE:

Keep container tightly closed in a dry and well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition

## 8. EXPOSURE CONTROLS\PERSONAL PROTECTION

### CONTROL PARAMETERS:

#### Exposure Limits:

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Citral 5392-40-5	dermal sensitizer TWA: 5 ppm inhalable fraction and vapor S*	-	-
alpha-Pinene 80-56-8	dermal sensitizer TWA: 20 ppm	-	-

### ENGINEERING CONTROLS:

Showers  
Eyewash Stations  
Ventilation Systems

### PERSONAL PROTECTIVE EQUIPMENT:

**RESPIRATORY PROTECTION:** No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

**EYE PROTECTION:** Use tightly sealed splash goggles, face shield, or safety glasses with brow guards and side shields as may be appropriate.

**SKIN PROTECTION:** Wear suitable protective clothing. Long sleeved clothing

**GENERAL HYGIENIC PRACTICES:** Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**COLOR:** Orange yellow to dark brown

**ODOR:** Characteristic

**APPEARANCE:** Liquid

**FLASH POINT:** 79 °C / 174 °F

**FLASH POINT METHOD:** CLOSED CUP

**SPECIFIC GRAVITY @ 20/20 °C:** 0.870-0.910

**REFRACTIVE INDEX:** 1.460 to 1.497 @20°C

**OPTICAL ROTATION:** -4 to 4

## 10. STABILITY AND REACTIVITY

**CHEMICAL STABILITY:** Product is stable under normal storage and use.

**POSSIBILITY OF HAZARDOUS REACTIONS:** None Known.

**CONDITIONS TO AVOID:** Excessive heat, sparks or open flame.

**HAZARDOUS DECOMPOSITION PRODUCTS:** None known based on information supplied.

**INCOMPATIBLE MATERIALS:** Strong acids. Strong bases. Strong oxidizing agents

**REACTIVITY:** No Information Available.

## 11. TOXICOLOGICAL INFORMATION

**INFORMATION ON LIKELY ROUTES OF EXPOSURE:**

**PRODUCT INFORMATION:**

**Inhalation** Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract.

**Eye contact** Specific test data for the substance or mixture is not available. Causes serious eye damage. May cause irreversible damage to eyes. (based on components).

**Skin contact** Specific test data for the substance or mixture is not available. May cause sensitization by skin contact. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. (based on components). Causes skin irritation.

**Ingestion** Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea

**Symptoms related to the physical, chemical and toxicological characteristics:**

**Symptoms** Redness. Burning. May cause blindness. Itching. Rashes. Hives. May cause redness and tearing of the eyes.

**ACUTE TOXICITY:**

**Numerical measures of toxicity**

The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral)	> 5000 mg/kg
ATEmix (dermal)	2,714.10 mg/kg

**Delayed and immediate effects as well as chronic effects from short and long-term exposure:**

**Skin corrosion/irritation** Classification based on data available for ingredients. Irritating to skin.

**Serious eye damage/eye irritation** Classification based on data available for ingredients. Causes burns. Risk of serious damage to eyes.

**Respiratory or skin sensitization** May cause sensitization by skin contact.

**Germ cell mutagenicity** No information available.

**Carcinogenicity** No information available

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

Toxic to aquatic life. Toxic to aquatic life with long lasting effects.

**Persistence and degradability**

No information available.

**Bioaccumulation**

There is no data for this product.

**Other adverse effects**

No information available

**13. DISPOSAL CONSIDERATIONS**

Do not allow product to reach sewage systems. Dispose of in accordance with all local and national regulations. Send to a licensed waste management company. The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container.

**14. TRANSPORT INFORMATION**

Regulator	Class	Pack Group	Sub Risk	UN-nr
<b>DOT (US)</b>				
<b>NON-BULK</b>	Not Regulated by DOT			

**BULK**  
 (Bulk packaging consists for a liquid of a capacity greater 119 US gal / 450 L. See CFR 171.4(c))

Environmentally Hazardous Substance, Liquid, n.o.s. (Citral and Geranyl acetate)	9	III		UN-3082
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**IATA (Air Cargo)**

Environmentally Hazardous Substance Liquid, n.o.s. (Citral and Geranyl acetate)	9	III		UN-3082
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**IMDG/IMO (Sea)**

Environmentally Hazardous Substance Liquid, n.o.s. (Citral and Geranyl acetate)	9	III		UN-3082
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EmS: F-A, S-F  
 Marine Pollutant: Yes



## 15. REGULATORY INFORMATION

### US FEDERAL REGULATIONS:

#### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

#### SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

### US STATE REGULATIONS:

#### California Proposition 65

This product does not contain any Proposition 65 chemicals

## 16. OTHER INFORMATION

### DISCLAIMER:

The information in this MSDS was obtained from current and reliable sources. However, the data is provided without any warranty, expressed or implied, regarding its correctness and accuracy. Since the conditions for use, handling, storage and disposal of this product are beyond NorthWood Distributing LLC 's control, it is the user's responsibility both to determine safe conditions for use of this product and to assume liability for loss, injury, damage or expense arising out of the product's



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