

# Safety Data Sheet

according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Revision: July 23, 2019

## 1 Identification

- **Product identifier**
- **Trade name:** Lemon Oil 1 fl oz
- **Product code:** 7565, 7569
- **CAS Number:**  
8008-56-8
- **Recommended use and restriction on use**
- **Recommended use:** Essential oils.
- **Restrictions on use:** No relevant information available.
- **Details of the supplier of the Safety Data Sheet**
- **Manufacturer/Supplier:**  
NOW Health Group  
395 S. Glen Ellyn Road  
Bloomington, IL 60108  
630-545-9098
- **Emergency telephone number:**  
ChemTel Inc.  
(800)255-3924 (North America)  
+1 (813)248-0585 (International)

## 2 Hazard(s) identification

- **Classification of the substance or mixture**
- Flam. Liq. 3 H226 Flammable liquid and vapor.
- Skin Irrit. 2 H315 Causes skin irritation.
- Eye Irrit. 2B H320 Causes eye irritation.
- Skin Sens. 1 H317 May cause an allergic skin reaction.
- Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.

### · Label elements

#### · GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

#### · Hazard pictograms:



GHS02 GHS07 GHS08

#### · Signal word: Danger

#### · Hazard statements:

- H226 Flammable liquid and vapor.
- H315+H320 Causes skin and eye irritation.
- H317 May cause an allergic skin reaction.
- H304 May be fatal if swallowed and enters airways.

#### · Precautionary statements:

- P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
- P233 Keep container tightly closed.
- P240 Ground/bond container and receiving equipment.
- P241 Use explosion-proof electrical/ventilating/lighting/equipment.

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P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P261	Avoid breathing mist, vapors, or spray.
P264	Wash thoroughly after handling.
P272	Contaminated work clothing must not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection.
P301+P310	If swallowed: Immediately call a poison center/doctor.
P331	Do NOT induce vomiting.
P303+P361+P353	If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P363	Wash contaminated clothing before reuse.
P370+P378	In case of fire: Use foam, powder, or carbon dioxide for extinction.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Other hazards** There are no other hazards not otherwise classified that have been identified.

### 3 Composition/information on ingredients

· **Chemical characterization: Substances**

· **CAS No. Description**

8008-56-8 Lemon, ext.

· **Components:**

5989-27-5	d-limonene ⚠ Flam. Liq. 3, H226 ⚠ Asp. Tox. 1, H304 ⚠ Skin Irrit. 2, H315; Skin Sens. 1, H317	>25%
127-91-3	beta-Pinene ⚠ Flam. Liq. 3, H226 ⚠ Asp. Tox. 1, H304 ⚠ Skin Irrit. 2, H315; Skin Sens. 1B, H317	10-20%
99-85-4	p-mentha-1,4-diene ⚠ Flam. Liq. 3, H226 ⚠ Asp. Tox. 1, H304	5-10%
80-56-8	alpha-Pinene ⚠ Flam. Liq. 3, H226 ⚠ Asp. Tox. 1, H304 ⚠ Acute Tox. 4, H302; Skin Irrit. 2, H315; Skin Sens. 1, H317	1-5%
123-35-3	Myrcene ⚠ Flam. Liq. 3, H226 ⚠ Asp. Tox. 1, H304 ⚠ Skin Irrit. 2, H315; Eye Irrit. 2A, H319	1-5%
141-27-5	Geranial	1-5%

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	<ul style="list-style-type: none"> <li>⚠ Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317</li> </ul>	
586-62-9	<ul style="list-style-type: none"> <li>Terpinolene</li> <li>⚠ Asp. Tox. 1, H304</li> <li>⚠ Skin Sens. 1B, H317</li> <li>Flam. Liq. 4, H227</li> </ul>	.01-1%
106-25-2	<ul style="list-style-type: none"> <li>Nerol</li> <li>⚠ Eye Dam. 1, H318</li> <li>⚠ Skin Irrit. 2, H315; Skin Sens. 1B, H317</li> </ul>	<0.1%
106-24-1	<ul style="list-style-type: none"> <li>Geraniol</li> <li>⚠ Eye Dam. 1, H318</li> <li>⚠ Skin Irrit. 2, H315; Skin Sens. 1, H317</li> </ul>	<0.1%

## 4 First-aid measures

- **Description of first aid measures**

- **After inhalation:**

Supply fresh air.

Provide oxygen treatment if affected person has difficulty breathing.

If experiencing respiratory symptoms: Call a poison center/doctor.

In case of unconsciousness place patient stably in side position for transportation.

- **After skin contact:**

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

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

- **After eye contact:**

Remove contact lenses if worn.

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- **After swallowing:**

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; immediately call for medical help.

A person vomiting while lying on their back should be turned onto their side.

- **Most important symptoms and effects, both acute and delayed:**

Breathing difficulty

Coughing

Allergic reactions

Irritant to skin and mucous membranes.

Causes eye irritation.

Gastric or intestinal disorders when ingested.

Nausea

- **Danger:**

May be fatal if swallowed and enters airways.

Danger of impaired breathing.

- **Indication of any immediate medical attention and special treatment needed:**

If swallowed, gastric irrigation with added, activated carbon.

If swallowed or in case of vomiting, danger of entering the lungs.

Medical supervision for at least 48 hours.

If necessary oxygen respiration treatment.

Later observation for pneumonia and pulmonary edema.

Contains Lemon, ext.. May produce an allergic reaction.

Treat skin and mucous membrane with antihistamine and corticoid preparations.

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### 5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**
  - Foam
  - Carbon dioxide
  - Fire-extinguishing powder
  - Gaseous extinguishing agents
  - Water fog / haze
- **For safety reasons unsuitable extinguishing agents:**
  - Water spray
  - Water stream.
- **Special hazards arising from the substance or mixture**
  - Flammable liquid and vapor.
  - Formation of toxic gases is possible during heating or in case of fire.
- **Advice for firefighters**
- **Protective equipment:**
  - Wear self-contained respiratory protective device.
  - Wear fully protective suit.
- **Additional information:**
  - Eliminate all ignition sources if safe to do so.
  - Cool endangered containers with water fog.
  - Use large quantities of foam as it is partially destroyed by the product.

### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
  - Use personal protective equipment as required.
  - Ensure adequate ventilation.
  - Keep away from ignition sources.
  - For large spills, use respiratory protective device against the effects of fumes/dust/aerosol.
- **Environmental precautions**
  - Do not allow to enter sewers/ surface or ground water.
  - Inform respective authorities in case of seepage into water course or sewage system.
- **Methods and material for containment and cleaning up**
  - Towel or mop up material and collect in a suitable container.
  - For large spills, absorb with non-combustible liquid-binding material (sand, diatomite, acid binders, universal binders).
  - Send for recovery or disposal in suitable receptacles.
- **Reference to other sections**
  - See Section 7 for information on safe handling.
  - See Section 8 for information on personal protection equipment.
  - See Section 13 for disposal information.

### 7 Handling and storage

- **Handling**
- **Precautions for safe handling:**

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Avoid splashes or spray in enclosed areas.

Use only in well ventilated areas.

Avoid contact with the eyes and skin.

Keep out of reach of children.

· **Information about protection against explosions and fires:**

Keep ignition sources away - Do not smoke.

Flammable gas-air mixtures may be formed in empty containers/receptacles.

Flammable liquid and vapor.

· **Conditions for safe storage, including any incompatibilities**

· **Requirements to be met by storerooms and receptacles:**

Avoid storage near extreme heat, ignition sources or open flame.

· **Information about storage in one common storage facility:**

Store away from foodstuffs.

Store away from oxidizing agents.

· **Further information about storage conditions:** Keep containers tightly sealed.

· **Specific end use(s)** No relevant information available.

### 8 Exposure controls/personal protection

· **Control parameters**

· **Components with limit values that require monitoring at the workplace:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

· **Exposure controls**

· **General protective and hygienic measures:**

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Avoid breathing mist, vapors, or spray.

· **Engineering controls:** Provide adequate ventilation.

· **Breathing equipment:**

Use suitable respiratory protective device when aerosol or mist is formed.

NIOSH or EN approved organic vapor respirator equipped with a dust/mist prefilter should be used.

· **Protection of hands:**



Protective gloves

· **Eye protection:**



Safety glasses

Follow relevant national guidelines concerning the use of protective eyewear.

· **Body protection:** Protective work clothing

· **Limitation and supervision of exposure into the environment**

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No relevant information available.

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· **Risk management measures** No relevant information available.

### 9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· **Appearance:**

**Form:** Liquid  
    **Color:** Greenish-Yellow.

· **Odor:** Characteristic

· **Odor threshold:** Not determined.

· **pH-value:** Not determined.

· **Melting point/Melting range:** Not determined.

· **Boiling point/Boiling range:** 210 °C (410 °F)

· **Flash point:** 48 °C (118.4 °F)

· **Flammability (solid, gaseous):** Not applicable.

· **Auto-ignition temperature:** Not determined.

· **Decomposition temperature:** Not determined.

· **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

· **Explosion limits**

**Lower:** Not determined.

**Upper:** Not determined.

· **Oxidizing properties:** Non-oxidizing.

· **Vapor pressure:** Not determined.

· **Density:**

**Relative density:** 0.852

**Vapor density:** Not determined.

**Evaporation rate:** Not determined.

· **Solubility in / Miscibility with**

**Water:** Not miscible or difficult to mix.

· **Partition coefficient (n-octanol/water):** Not determined.

· **Viscosity**

**Dynamic:** Not determined.

**Kinematic:** Not determined.

· **Other information** No relevant information available.

### 10 Stability and reactivity

· **Reactivity:** No relevant information available.

· **Chemical stability:** Stable under normal temperatures and pressures.

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- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used and stored according to specifications.
- **Possibility of hazardous reactions**  
Flammable liquid and vapor.  
Used empty containers may contain product gases which form explosive mixtures with air.  
Can form explosive mixtures in air if heated above flash point and/or when sprayed or atomized.  
Reacts with oxidizing agents.  
Toxic fumes may be released if heated above the decomposition point.
- **Conditions to avoid** Keep ignition sources away - Do not smoke.
- **Incompatible materials** Oxidizing agents.
- **Hazardous decomposition products**  
Under fire conditions only:  
Carbon monoxide and carbon dioxide

## 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:** Based on available data, the classification criteria are not met.
- **LD/LC50 values that are relevant for classification:** None.
- **Primary irritant effect:**
- **On the skin:** Irritant to skin and mucous membranes.
- **On the eye:** Causes eye irritation.
- **Sensitization:** Sensitization possible through skin contact.

**IARC (International Agency for Research on Cancer):**

Substance is not listed.

**NTP (National Toxicology Program):**

Substance is not listed.

**OSHA-Ca (Occupational Safety & Health Administration):**

Substance is not listed.

**Probable route(s) of exposure:**

Ingestion.  
Inhalation.  
Eye contact.  
Skin contact.

- **Germ cell mutagenicity:** Based on available data, the classification criteria are not met.
- **Carcinogenicity:** Based on available data, the classification criteria are not met.
- **Reproductive toxicity:** Based on available data, the classification criteria are not met.
- **STOT-single exposure:** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure:** Based on available data, the classification criteria are not met.
- **Aspiration hazard:** May be fatal if swallowed and enters airways.

## 12 Ecological information

- **Toxicity**
- **Aquatic toxicity** Toxic to aquatic life with long lasting effects.
- **Persistence and degradability** No relevant information available.

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- **Bioaccumulative potential:** No relevant information available.
- **Mobility in soil:** No relevant information available.
- **Other adverse effects** No relevant information available.

## 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**  
The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.
- **Uncleaned packagings**
- **Recommendation:** Disposal must be made according to official regulations.

## 14 Transport information

· <b>UN-Number</b>	
· <b>DOT</b>	NA1993
· <b>ADR/RID/ADN, IMDG, IATA</b>	UN1993
· <b>UN proper shipping name</b>	
· <b>DOT</b>	Combustible liquid, n.o.s. (lemon oil)
· <b>ADR/RID/ADN, IMDG</b>	TERPENE HYDROCARBONS, N.O.S.
· <b>IATA</b>	Terpene hydrocarbons, n.o.s.
· <b>Transport hazard class(es)</b>	
· <b>DOT</b>	
	
· <b>Class</b>	3
· <b>Label</b>	3
-----	
· <b>ADR/RID/ADN</b>	
	
· <b>Class</b>	3 (F1)
· <b>Label</b>	3
-----	
· <b>IMDG, IATA</b>	
	
· <b>Class</b>	3

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<b>· Label</b>	3
<b>· Packing group</b> <b>· DOT, ADR/RID/ADN, IMDG, IATA</b>	III
<b>· Environmental hazards</b>  <b>· Marine pollutant:</b>	Product contains environmentally hazardous substances: Lemon, ext.
 Yes	
<b>· Special precautions for user</b> <b>· Danger code (Kemler):</b> <b>· EMS Number:</b>	Warning: Flammable liquids 30 F-E, <u>S-E</u>
<b>· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
<b>· Transport/Additional information:</b>  <b>· DOT</b>	Classified as combustible under US DOT regulations. Labeling is only required for single packages $\geq 119$ US gal / 450 L. Labeling as a Marine Pollutant is only required for bulk single package shipments. Bulk packaging consists of a maximum capacity of greater than 450 L (119 gallons) for a liquid and a maximum net mass greater than 400 kg (882 pounds) for a solid. (See 171.4(c))
<b>· ADR/RID/ADN</b>	
 Limited Quantity for packages less than 30 kg gross and inner packagings less than 5 L each.  Marine pollutants packaged in single or combination packagings containing a net quantity per single or inner packaging of 5 L or less for liquids or having a net mass per single or inner packaging of 5 kg or less for solids are not subject to provisions relevant to marine pollutants. (See 5.2.1.8.1)	
<b>· IMDG</b>	
 Limited Quantity for packages less than 30 kg gross and inner packagings less than 5 L each.  Marine pollutants packaged in single or combination packagings containing a net quantity per single or inner packaging of 5 L or less for liquids or having a net mass per single or inner packaging of 5 kg or less for solids are not subject to provisions relevant to marine pollutants. (See 2.10.2.7)	

### 15 Regulatory information

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- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **United States (USA)**
- **SARA**

· **Section 302 (extremely hazardous substances):**

Substance is not listed.

· **Section 355 (extremely hazardous substances):**

Substance is not listed.

· **Section 313 (Specific toxic chemical listings):**

Substance is not listed.

· **TSCA (Toxic Substances Control Act)**

All ingredients are listed or exempt.

· **Proposition 65 (California)**

· **Chemicals known to cause cancer:**

Present in trace quantities.

123-35-3	Myrcene
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· **Chemicals known to cause developmental toxicity for females:**

Substance is not listed.

· **Chemicals known to cause developmental toxicity for males:**

Substance is not listed.

· **Chemicals known to cause developmental toxicity:**

Substance is not listed.

· **EPA (Environmental Protection Agency):**

Substance is not listed.

· **IARC (International Agency for Research on Cancer):**

Substance is not listed.

· **Canadian Domestic Substances List (DSL):**

All ingredients are listed or exempt.

### 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Abbreviations and acronyms:**

- ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
- IMDG: International Maritime Code for Dangerous Goods
- DOT: US Department of Transportation
- IATA: International Air Transport Association
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- OSHA: Occupational Safety & Health Administration
- Flam. Liq. 3: Flammable liquids – Category 3
- Flam. Liq. 4: Flammable liquids – Category 4
- Acute Tox. 4: Acute toxicity – Category 4

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Skin Irrit. 2: Skin corrosion/irritation – Category 2  
Eye Dam. 1: Serious eye damage/eye irritation – Category 1  
Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A  
Eye Irrit. 2B: Serious eye damage/eye irritation – Category 2B  
Skin Sens. 1: Skin sensitisation – Category 1  
Skin Sens. 1B: Skin sensitisation – Category 1B  
Asp. Tox. 1: Aspiration hazard – Category 1

**Sources**

Website, European Chemicals Agency ([echa.europa.eu](http://echa.europa.eu))  
Website, US EPA Substance Registry Services ([ofmpub.epa.gov/sorinternet/registry/substreg/home/overview/home.do](http://ofmpub.epa.gov/sorinternet/registry/substreg/home/overview/home.do))  
Website, Chemical Abstracts Registry, American Chemical Society ([www.cas.org](http://www.cas.org))  
Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: 978-0-470-07488-6  
Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5.  
Safety Data Sheets, Individual Manufacturers

SDS Prepared by:  
ChemTel Inc.  
1305 North Florida Avenue  
Tampa, Florida USA 33602-2902  
Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573  
Website: [www.chemtelinc.com](http://www.chemtelinc.com)