1. Identification

**Product identifier:** Furniture Polish with Lemon Oil - CL8116

**Other means of identification**
- **SDS number:** RE1000011539

**Recommended restrictions**
- **Product use:** Cleaner
- **Restrictions on use:** Not known.

**Manufacturer/Importer/Distributor Information**
- **Manufacturer**
  - **Company Name:** CLAIRE MANUFACTURING COMPANY
  - **Address:** 1000 Integram Dr
    - Pacific, MO 63069
  - **Telephone:** 1-630-543-7600
  - **Fax:**
  - **Emergency telephone number:** 1-866-836-8855

2. Hazard(s) identification

**Hazard Classification**
- **Physical Hazards**
  - **Flammable aerosol**
  - **Category 1**

**Label Elements**
- **Hazard Symbol:**

![Flammable Aerosol Symbol]

- **Signal Word:** Danger

- **Hazard Statement:** Extremely flammable aerosol.

**Precautionary Statements**
- **Prevention:** Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use.

- **Storage:** Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

**Hazard(s) not otherwise classified (HNOC):** None.
3. Composition/information on ingredients

Mixtures

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>CAS number</th>
<th>Content in percent (%)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Butane</td>
<td>106-97-8</td>
<td>1 - &lt;5%</td>
</tr>
<tr>
<td>Propane</td>
<td>74-98-6</td>
<td>1 - &lt;5%</td>
</tr>
<tr>
<td>Terpenes and Terpenoids, sweet orange-oil</td>
<td>68647-72-3</td>
<td>0.1 - &lt;1%</td>
</tr>
</tbody>
</table>

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First-aid measures

Ingestion: Rinse mouth thoroughly.
Inhalation: Move to fresh air.
Skin Contact: Remove contaminated clothing and wash the skin thoroughly with soap and water after work.
Eye contact: Rinse immediately with plenty of water.

Most important symptoms/effects, acute and delayed

Symptoms: No data available.
Hazards: No data available.

Indication of immediate medical attention and special treatment needed

Treatment: No data available.

5. Fire-fighting measures

General Fire Hazards: Use water spray to keep fire-exposed containers cool. Fight fire from a protected location. Move containers from fire area if you can do so without risk.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media: Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing media: Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical: Vapors may travel considerable distance to a source of ignition and flash back.

Special protective equipment and precautions for firefighters

Special fire fighting procedures: No data available.

Special protective equipment for fire-fighters: Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.
6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures:**
Ventilate closed spaces before entering them. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep upwind.

**Methods and material for containment and cleaning up:**
Stop the flow of material, if this is without risk. Absorb with sand or other inert absorbent.

**Notification Procedures:**
ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop leak if you can do so without risk.

**Environmental Precautions:**
Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water sources or sewer. Environmental manager must be informed of all major spillages.

7. Handling and storage

**Precautions for safe handling:**
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use.

**Conditions for safe storage, including any incompatibilities:**
Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Aerosol Level 1

8. Exposure controls/personal protection

**Control Parameters**

**Occupational Exposure Limits**

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>Type</th>
<th>Exposure Limit Values</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>Butane</td>
<td>REL</td>
<td>800 ppm, 1,900 mg/m³</td>
<td>US. NIOSH: Pocket Guide to Chemical Hazards (2005)</td>
</tr>
<tr>
<td></td>
<td>STEL</td>
<td>1,000 ppm, 1,800 mg/m³</td>
<td>US. ACGIH Threshold Limit Values (03 2018)</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>800 ppm, 1,900 mg/m³</td>
<td>US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)</td>
</tr>
<tr>
<td>Propane</td>
<td>REL</td>
<td>1,000 ppm, 1,800 mg/m³</td>
<td>US. NIOSH: Pocket Guide to Chemical Hazards (2005)</td>
</tr>
<tr>
<td></td>
<td>PEL</td>
<td>1,000 ppm, 1,800 mg/m³</td>
<td>US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>1,000 ppm, 1,800 mg/m³</td>
<td>US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)</td>
</tr>
<tr>
<td>1,2-Benzenedicarboxylic acid, 1,2-diethyl ester</td>
<td>REL</td>
<td>5 mg/m³</td>
<td>US. NIOSH: Pocket Guide to Chemical Hazards (2005)</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>5 mg/m³</td>
<td>US. ACGIH Threshold Limit Values (2008)</td>
</tr>
<tr>
<td>2.6-Octadienal, 3,7-dimethyl- -Inhalable fraction and vapor.</td>
<td>STEL</td>
<td>5 ppm</td>
<td>US. ACGIH Threshold Limit Values (01 2010)</td>
</tr>
<tr>
<td>Ammonium hydroxide (NH₄(OH))</td>
<td>STEL</td>
<td>35 ppm</td>
<td>US. ACGIH Threshold Limit Values (2008)</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>25 ppm</td>
<td>US. ACGIH Threshold Limit Values (2008)</td>
</tr>
<tr>
<td></td>
<td>STEL</td>
<td>35 ppm, 27 mg/m³</td>
<td>US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)</td>
</tr>
<tr>
<td></td>
<td>STEL</td>
<td>35 ppm, 27 mg/m³</td>
<td>US. NIOSH: Pocket Guide to Chemical Hazards (2005)</td>
</tr>
<tr>
<td></td>
<td>REL</td>
<td>25 ppm, 18 mg/m³</td>
<td>US. NIOSH: Pocket Guide to Chemical Hazards (2005)</td>
</tr>
<tr>
<td></td>
<td>PEL</td>
<td>50 ppm, 35 mg/m³</td>
<td>US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)</td>
</tr>
</tbody>
</table>
### Appropriate Engineering Controls

No data available.

### Individual protection measures, such as personal protective equipment

#### General information:
Use personal protective equipment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

#### Eye/face protection:
Wear goggles/face shield.

#### Skin Protection

- **Hand Protection:** No data available.
- **Other:** No data available.

#### Respiratory Protection:
In case of inadequate ventilation use suitable respirator. Seek advice from local supervisor.

#### Hygiene measures:
When using do not smoke. Observe good industrial hygiene practices.

### 9. Physical and chemical properties

#### Appearance

- **Physical state:** Liquid
- **Form:** Spray Aerosol
- **Color:** No data available.
- **Odor:** No data available.
- **Odor threshold:** No data available.
- **pH:** No data available.
- **Melting point/freezing point:** No data available.
- **Initial boiling point and boiling range:** No data available.
- **Flash Point:** -104.44 °C
- **Evaporation rate:** No data available.
- **Flammability (solid, gas):** No data available.

#### Upper/lower limit on flammability or explosive limits

- **Flammability limit - upper (%):** No data available.
- **Flammability limit - lower (%):** No data available.
- **Explosive limit - upper (%):** No data available.
- **Explosive limit - lower (%):** No data available.

#### Vapor pressure:
No data available.

#### Vapor density:
No data available.

#### Density:
No data available.

#### Relative density:
No data available.

#### Solubility(ies)

- **Solubility in water:** No data available.
- **Solubility (other):** No data available.

#### Partition coefficient (n-octanol/water):
No data available.
10. Stability and reactivity

Reactivity: No data available.

Chemical Stability: Material is stable under normal conditions.

Possibility of hazardous reactions: No data available.

Conditions to avoid: Avoid heat or contamination.

Incompatible Materials: No data available.

Hazardous Decomposition Products: No data available.

11. Toxicological information

Information on likely routes of exposure

Inhalation: No data available.

Skin Contact: No data available.

Eye contact: No data available.

Ingestion: No data available.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation: No data available.

Skin Contact: No data available.

Eye contact: No data available.

Ingestion: No data available.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral Product: Not classified for acute toxicity based on available data.

Specified substance(s):
Terpenes and Terpenoids, sweet orange-oil
LD 50: > 2,000 mg/kg

Dermal Product: Not classified for acute toxicity based on available data.

Specified substance(s):
Terpenes and
LD 50: > 2,000 mg/kg
Terpenoids, sweet orange-oil

**Inhalation**

**Product:** Not classified for acute toxicity based on available data.

**Specified substance(s):**
- Butane: \( \text{LC 50: } > 100 \text{ mg/l} \)
- Propane: \( \text{LC 50: } > 100 \text{ mg/l} \)
- Terpenes and Terpenoids, sweet orange-oil: \( \text{LC 50: } > 5 \text{ mg/l} \)
  \( \text{LC 50: } > 20 \text{ mg/l} \)

**Repeated dose toxicity**

**Product:** No data available.

**Specified substance(s):**
- Butane: \( \text{LOAEL (Rat(Female, Male), Inhalation, } \geq 28 \text{ d): } 12,000 \text{ ppm(m) Inhalation Experimental result, Key study} \)
  \( \text{NOAEL (Rat(Female, Male), Inhalation, } \geq 28 \text{ d): } 4,000 \text{ ppm(m) Inhalation Experimental result, Key study} \)
- Propane: \( \text{NOAEL (Rat(Female, Male), Inhalation, } \geq 28 \text{ d): } 4,000 \text{ ppm(m) Inhalation Experimental result, Key study} \)
  \( \text{LOAEL (Rat(Female, Male), Inhalation, } \geq 28 \text{ d): } 12,000 \text{ ppm(m) Inhalation Experimental result, Key study} \)

**Skin Corrosion/Irritation**

**Product:** No data available.

**Serious Eye Damage/Eye Irritation**

**Product:** No data available.

**Respiratory or Skin Sensitization**

**Product:** No data available.

**Carcinogenicity**

**Product:** No data available.

**IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:**

No carcinogenic components identified

**US. National Toxicology Program (NTP) Report on Carcinogens:**

No carcinogenic components identified

**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):**

No carcinogenic components identified

**Germ Cell Mutagenicity**

**In vitro**

**Product:** No data available.

**In vivo**

**Product:** No data available.
Reproductive toxicity
Product: No data available.

Specific Target Organ Toxicity - Single Exposure
Product: No data available.

Specific Target Organ Toxicity - Repeated Exposure
Product: No data available.

Aspiration Hazard
Product: No data available.

Specified substance(s):
Terpenes and Terpenoids, sweet orange-oil
May be fatal if swallowed and enters airways.

Other effects: No data available.

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish
Product: No data available.

Specified substance(s):
Butane LC 50 (Various, 96 h): 147.54 mg/l QSAR QSAR, Key study
Propane LC 50 (Various, 96 h): 147.54 mg/l QSAR QSAR, Key study
Terpenes and Terpenoids, sweet orange-oil LC 50 (96 h): < 10 mg/l

Aquatic Invertebrates
Product: No data available.

Specified substance(s):
Butane LC 50 (Daphnia sp., 48 h): 69.43 mg/l QSAR QSAR, Key study

Chronic hazards to the aquatic environment:

Fish
Product: No data available.

Aquatic Invertebrates
Product: No data available.

Toxicity to Aquatic Plants
Product: No data available.

Persistence and Degradability

Biodegradation
Product: No data available.
Specified substance(s):
Butane 100 % (385.5 h) Detected in water. Experimental result, Key study
Propane 100 % (385.5 h) Detected in water. Experimental result, Key study 50 % (3.19 d) Detected in water. QSAR, Weight of Evidence study
Terpenes and Terpenoids, sweet orange-oil < 70 %

BOD/COD Ratio
Product: No data available.

Bioaccumulative potential
Bioconcentration Factor (BCF)
Product: No data available.

Partition Coefficient n-octanol / water (log Kow)
Product: No data available.

Mobility in soil:
No data available.

Known or predicted distribution to environmental compartments
Butane No data available.
Propane No data available.
Terpenes and Terpenoids, sweet orange-oil No data available.

Other adverse effects:
No data available.

13. Disposal considerations

Disposal instructions: Wash before disposal. Dispose to controlled facilities.

Contaminated Packaging: No data available.

14. Transport information

DOT
UN Number: UN 1950
UN Proper Shipping Name: Aerosols, flammable
Transport Hazard Class(es) Class: 2.1
Label(s): –
Packing Group: II
Marine Pollutant: No
Environmental Hazards: No
Marine Pollutant No
Special precautions for user: Not regulated.

IMDG
UN Number: UN 1950
UN Proper Shipping Name: Aerosols, flammable
Transport Hazard Class(es) Class: 2
Label(s): –
EmS No.: –
Packing Group: –

Environmental Hazards: No
Marine Pollutant: No

Special precautions for user: Not regulated.

IATA
UN Number: UN 1950
Proper Shipping Name: Aerosols, flammable
Transport Hazard Class(es):
  Class: 2.1
  Label(s): –
Packing Group: –

Environmental Hazards: No
Marine Pollutant: No

Special precautions for user: Not regulated.

15. Regulatory information

US Federal Regulations

Restrictions on use: Not known.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)
None present or none present in regulated quantities.

CERCLA Hazardous Substance List (40 CFR 302.4):

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>Reportable quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Butane</td>
<td>lbs. 100</td>
</tr>
<tr>
<td>Propane</td>
<td>lbs. 100</td>
</tr>
<tr>
<td>1,2-Benzenedicarboxylic acid, 1,2-diethyl ester</td>
<td>lbs. 1000</td>
</tr>
<tr>
<td>Ammonium hydroxide ((NH4)(OH))</td>
<td>lbs. 1000</td>
</tr>
<tr>
<td>Bicyclo[3.1.1]hept-2-ene, 2,6,6-trimethyl-</td>
<td>lbs. 100</td>
</tr>
</tbody>
</table>

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories
  Fire Hazard
  Flammable aerosol

SARA 302 Extremely Hazardous Substance

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>Reportable quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Terpenes and Terpenoids, sweet orange-oil</td>
<td></td>
</tr>
</tbody>
</table>

SARA 304 Emergency Release Notification

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>Reportable quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Butane</td>
<td>lbs. 100</td>
</tr>
</tbody>
</table>
Propane          lbs. 100
Terpenes and     lbs. 1000
Terpenoids,      lbs. 1000
sweet orange-oil Ammonium hydroxide lbs. 1000
1,2-Benzenedicarboxylic acid, 1,2-diethyl ester ((NH4)(OH))
Terpenes and Terpenoids, 10000 lbs
sweet orange-oil

SARA 311/312 Hazardous Chemical

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>Threshold Planning Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Butane</td>
<td>10000 lbs</td>
</tr>
<tr>
<td>Propane</td>
<td>10000 lbs</td>
</tr>
<tr>
<td>Terpenes and Terpenoids,</td>
<td>10000 lbs</td>
</tr>
</tbody>
</table>
| sweet orange-oil

SARA 313 (TRI Reporting)
None present or none present in regulated quantities.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):
Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

US State Regulations

US. California Proposition 65
No ingredient requiring a warning under CA Prop 65.

US. New Jersey Worker and Community Right-to-Know Act

Chemical Identity
Butane
Propane

US. Massachusetts RTK - Substance List
No ingredient regulated by MA Right-to-Know Law present.

US. Pennsylvania RTK - Hazardous Substances

Chemical Identity
Butane
Propane

US. Rhode Island RTK
No ingredient regulated by RI Right-to-Know Law present.

International regulations

Montreal protocol
Terpenes and Terpenoids, sweet orange-oil

Stockholm convention
Terpenes and Terpenoids, sweet orange-oil

Rotterdam convention
Terpenes and Terpenoids, sweet orange-oil
Kyoto protocol

Inventory Status:
Australia AICS: Not in compliance with the inventory.

Canada DSL Inventory List: Not in compliance with the inventory.

EINECS, ELINCS or NLP: Not in compliance with the inventory.

Japan (ENCS) List: Not in compliance with the inventory.

China Inv. Existing Chemical Substances: Not in compliance with the inventory.

Korea Existing Chemicals Inv. (KECI): Not in compliance with the inventory.

Canada NDSL Inventory: Not in compliance with the inventory.

Philippines PICCS: Not in compliance with the inventory.

US TSCA Inventory: Not in compliance with the inventory.

New Zealand Inventory of Chemicals: Not in compliance with the inventory.

Japan ISHL Listing: Not in compliance with the inventory.

Japan Pharmacopoeia Listing: Not in compliance with the inventory.

Mexico INSQ: Not in compliance with the inventory.

Ontario Inventory: Not in compliance with the inventory.

Taiwan Chemical Substance Inventory: Not in compliance with the inventory.

16. Other information, including date of preparation or last revision

Issue Date: 09/26/2019
Revision Information: No data available.
Version #: 1.0
Further Information: No data available.
Disclaimer: This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.