1. PRODUCT AND COMPANY IDENTIFICATION

<table>
<thead>
<tr>
<th>Details</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product name</td>
<td>Lemon (Sicily) Essential Oil</td>
</tr>
<tr>
<td>Botanical name</td>
<td>Citrus limon Burm. F.</td>
</tr>
<tr>
<td>INCI name</td>
<td>Citrus Limon Peel Oil</td>
</tr>
<tr>
<td>CAS #</td>
<td>8008-56-8 / 84929-31-7</td>
</tr>
<tr>
<td>Country of Origin</td>
<td>Italy</td>
</tr>
<tr>
<td>EINECS #</td>
<td>- / 284-515-8</td>
</tr>
<tr>
<td>Product use</td>
<td>Domestic and Industrial</td>
</tr>
<tr>
<td>Supplier</td>
<td>New Directions Aromatics Inc.</td>
</tr>
<tr>
<td>Address</td>
<td>6781 Columbus Road, Mississauga, Ontario, CANADA L5T 2G9</td>
</tr>
<tr>
<td>Fax</td>
<td>905-362-1926</td>
</tr>
<tr>
<td>Telephone number</td>
<td>905-362-1915</td>
</tr>
<tr>
<td>Emergency phone number</td>
<td>(613)-996-6666 CANUTEC 24 HOUR EMERGENCY</td>
</tr>
</tbody>
</table>

2. HAZARDS IDENTIFICATION

Emergency Overview

GHS Classification

- Flammable Liquid - Category 3
- Aspiration toxicity - Category 1
- Skin corrosion/irritation - Category 2
- Skin Sensitization - Category 1B
- Hazardous to aquatic environment, Chronic - Category 1

GHS Label elements, including precautionary statements

Signal: Danger

Hazard statement(s)

- H226 Flammable liquid and vapor
- H304 May be fatal if swallowed and enters airways
- H315 Causes skin irritation
- H317 May cause an allergic skin reaction
- H411 Very toxic to aquatic life with long lasting effects

Precautionary statement(s)

- P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking
3. COMPOSITION / INFORMATION INGREDIENTS

<table>
<thead>
<tr>
<th>Product Name</th>
<th>CAS NO</th>
<th>EC NO</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Limonene</td>
<td>138-86-3</td>
<td>-</td>
<td>60 - 68 %</td>
</tr>
<tr>
<td>beta-Pinene</td>
<td>-</td>
<td>-</td>
<td>10 - 16.5 %</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

**Eye contact**
Immediately flush eyes with plenty of cool water for at least 15 minutes. Get medical attention if irritation occurs.

**Skin contact**
Remove contaminated clothing. Wash area with soap and water. If irritation occurs, get medical attention.

**Inhalation**
If inhaled, removed to fresh air. Get medical attention if symptoms appear.

**Ingestion**
Seek medical attention or contact local poison control center.

5. FIRE FIGHTING MEASURES

**Suitable extinguishing media**

**Unsuitable extinguishing media**
Water spray, water jet.

**Special protective equipment and precautions for fire-fighters**
Wear proper protective equipment. Exercise caution when fighting any chemical fire. Use water spray or fog for cooling exposed containers.

**Special hazards arising from the substance or its combustible products**
Hazardous decomposition products may be formed at extreme heat or if burned.
Resulting gases
Carbon oxides.

6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures.**
Equip clean crew with proper protection. Respiratory protection equipment may be necessary.

**Environmental precautions**
Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

**Methods and materials for containment and cleaning up**
Clean up any spills as soon as possible, using an absorbent material to collect it. Use suitable disposal containers.

7. HANDLING AND STORAGE

**Precautions for safe handling**
No direct lighting. No smoking. Ensure prompt removal from eyes, skin and clothing. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Handle in accordance with good industrial hygiene and safety procedures.

**Conditions for safe storage, including any incompatibilities**
Dry area, unopened containers, optimum temperature 11 - 25°C. Store at below 20°C. Keep away from unguarded flame and heat sources. Avoid direct exposure to sunlight. Keep container closed when not in use.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

**Eyes**
Use tightly sealed goggles.

**Skin**
If skin contact or contamination of clothing is likely, protective clothing should be worn. Use protective gloves.

**Respiratory**
In case of insufficient ventilation, wear suitable respiratory equipment.

9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Light yellow to dark green.</td>
</tr>
<tr>
<td>Odor</td>
<td>Sweet fresh pleasant reminiscent of the ripe peel of the fruit.</td>
</tr>
<tr>
<td>Flash point</td>
<td>53°C</td>
</tr>
<tr>
<td>Relative density</td>
<td>0.850 to 0.855 @ 20 ºC</td>
</tr>
<tr>
<td>Solubility (ies)</td>
<td>Soluble in alcohol and oils. Insoluble in water.</td>
</tr>
<tr>
<td>Refractive index</td>
<td>1.473 to 1.476 @ 20 ºC</td>
</tr>
<tr>
<td>Optical rotation</td>
<td>+57° to +66° @ 20°C</td>
</tr>
</tbody>
</table>

10. STABILITY AND REACTIVITY

**Reactivity**
This material presents no significant reactivity hazard.

**Chemical stability**
Chemically stable.

**Possibility of hazardous reactions**
Hazardous polymerization will not occur.
Conditions to avoid
Avoid sparks, flame and other heat sources.

Incompatible materials
Strong oxidizing agents.

Hazardous decomposition products
Carbon Oxides.

11. TOXICOLOGICAL INFORMATION

Inhalation
Inhalation of high concentrations of vapor may result in irritation of eyes, nose and throat, headache, nausea, and dizziness.

Skin contact
Adverse skin effects should be prevented by normal care and personal hygiene.

Eye contact
Possible irritation should be prevented by wearing safety glasses.

12. ECOLOGICAL INFORMATION

Ecotoxicity
Adopt good working practices so the product is not released to the environment. Toxic to aquatic organisms, may cause long-term adverse effects environment. Avoid any pollution of ground, surface or underground water.

Persistence and degradability
Not available.

Bio - accumulative potential
Not available.

Mobility in soil
Not available.

Other adverse effects
Not available.

13. DISPOSAL CONSIDERATION
Dispose of product in accordance with local, state or provincial and federal regulations. Check with local municipal authority to ensure compliance.

14. TRANSPORT INFORMATION

UN Number
1169

UN proper shipping name
Extracts, aromatic, liquid

Transport hazard class
3

Packing group
III

US DOT Shipping Description (Land)
1169
Proper shipping name  
Extracts, aromatic, liquid

Class  
3

Packaging group  
III

IMO-IMDG Shipping Description (Sea)  
1169

Proper shipping name  
Extracts, aromatic, liquid

Class  
3

Packaging group  
III

IATA Shipping Description (Air)  
1169

Proper shipping name  
Extracts, aromatic, liquid

Class  
3

Packaging group  
III

15. REGULATORY INFORMATION

California Proposition 65  
Contains substance identified in the revised list of the California Safe Cosmetic program SB 484 (as stated in Proposition 65 revised list: MYRCENE).

GHS Hazard Statements  
Please refer to section 2.

GHS Precautionary Statements  
Please refer to section 2.

16. OTHER INFORMATION

Revision date  :  August 31, 2018

Disclaimer & Caution

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