1. PRODUCT AND COMPANY IDENTIFICATION

<table>
<thead>
<tr>
<th>Product name</th>
<th>Bergamot (Calabrian) Essential Oil</th>
</tr>
</thead>
<tbody>
<tr>
<td>Botanical name</td>
<td>Citrus bergamia risso</td>
</tr>
<tr>
<td>INCI name</td>
<td>Citrus Aurantium Bergamia Peel Oil</td>
</tr>
<tr>
<td>CAS #</td>
<td>89957-91-5</td>
</tr>
<tr>
<td>Country of Origin</td>
<td>Italy</td>
</tr>
<tr>
<td>EINECS #</td>
<td>289-612-9</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 liquids - Category 3
- Aspiration Hazard - Category 1
- Skin corrosion/irritation - Category 2
- Skin Sensitization - Category 1
- Serious eye damage/eye irritation - Category 2A
- Hazardous to the aquatic environment - Acute Hazard - Category 1
- Hazardous to the aquatic environment - Chronic Hazard - Category 1

GHS Label elements, including precautionary statements

Signal: Danger

Hazard statement(s)
H226  Flammable liquid and vapour.
H304  May be fatal if swallowed and enters airways.
H315  Causes skin irritation.
H317  May cause an allergic skin reaction.
H319  Causes serious eye irritation.
H400  Very toxic to aquatic life.
H410  Very toxic to aquatic life with long-lasting effects.

Precautionary statement(s)

P210  Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. - No smoking.
P233  Keep container tightly closed.
P240  Ground/bond container and receiving equipment.
P241  Use explosion-proof electrical, ventilating, lighting, communication, equipment.
P242  Use only non-sparking tools.
P243  Take precautionary measures against static discharge.
P261  Avoid breathing dust, fumes, gas, mist, vapours, spray.
P272  Contaminated work clothing should not be allowed out of the workplace.
P273  Avoid release to the environment.
P280  Wear protective gloves, protective clothing, eye protection, face protection.
P301+P310  IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P302+P352  IF ON SKIN: Wash with plenty of soap and water.
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.
P310  Immediately call a POISON CENTER or doctor/physician.
P321  Specific treatment.
P331  Do NOT induce vomiting.
P332+P313  If skin irritation occurs: Get medical advice.
P333+P313  If skin irritation or a rash occurs: Get medical advice.
P362  Take off contaminated clothing.
P363  Wash contaminated clothing before reuse.
P370+P378  In case of fire: Use CO2 foam, dry chemical for extinction.
P391  Collect spillage.
P403+P235  Store in a well ventilated place. Keep cool.
P405  Store locked up.
P501  Dispose of contents and/or container in accordance with local, regional, national and/or international regulation for hazardous wastes.

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>205-341-0/931-893-3</td>
<td>30 - 45 %</td>
</tr>
<tr>
<td>Linalyl Acetate</td>
<td>115-95-7</td>
<td>204-116-4</td>
<td>20 - 36 %</td>
</tr>
</tbody>
</table>
Linalool  78-70-6  201-134-4  3 - 15 %
Pinenes  80-56-8  201-291-9  1 - 15 %

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.

Resulting gases
Carbon Monoxide, Carbon Dioxide.

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
Avoid inhalation and contact with skin and eyes. Good personal hygiene practices should be used. Wash after any contact, before breaks and meals, and at the end of the work period. Contaminated clothing and shoes should be cleaned before reuse.

Conditions for safe storage, including any incompatibilities
Provide local exhaust or general room ventilation to minimize dust and/or vapour concentrations. Keep container closed when not in use.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure controls
These precautions are for room temperature handling. Use at elevated temperature or aerosol / spray applications may require additional precautions.
**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.

**Ingestion**
Not for ingestion.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Light yellowish green to yellowish brown liquid.</td>
</tr>
<tr>
<td>Odor</td>
<td>Fragrant sweet-fruity odor.</td>
</tr>
<tr>
<td>Flash point</td>
<td>57 °C</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>0.4 mm Hg @ 20 °C</td>
</tr>
<tr>
<td>Relative density</td>
<td>0.874 to 0.883 @ 20 °C</td>
</tr>
<tr>
<td>Solubility (ies)</td>
<td>Soluble in alcohol and oils. Insoluble in water.</td>
</tr>
<tr>
<td>Refractive index</td>
<td>1.4650 to 1.470 @ 20 °C</td>
</tr>
<tr>
<td>Optical rotation</td>
<td>+15° to +32° @ 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

**Acute toxicity**
Not available.

**Carcinogenicity**
None of the components of this material are listed as a carcinogen.

**Chronic toxicity**
May cause allergic reactions on skin.

**Reproductive toxicity**
No adverse effects on reproduction are known.

**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.

**Ingestion**
Low order toxicity causing irritation of the stomach and intestines which results in nausea and vomiting

**Repeated exposure**
Repeated or prolonged contact may cause redness, irritation and scaling of skin (Dermatitis).

### 12. ECOLOGICAL INFORMATION

**Ecotoxicity**
Toxic to aquatic organisms, may cause long-term adverse effects environment. Avoid any pollution of ground, surface or underground water.

### 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
Extraction, aromatic, liquid

Class
3

Packaging group
III

15. REGULATORY INFORMATION

California Proposition 65
This product contains chemical(s) listed per the Safe Drinking Water and Enforcement Act of 1986. Contains:
β-Myrcene.

GHS Hazard Statements
Please see section 2.

GHS Precautionary Statements
Please see section 2.

16. OTHER INFORMATION

Revision date : February 13, 2018

Disclaimer & Caution
Please refer to all relevant technical information specific to the product, prior to use. The information contained in this document is
obtained from current and reliable sources. New Directions Aromatics Inc. provides the information contained herein, but makes no
representation as to its comprehensiveness or accuracy. Individuals receiving this information must exercise their independent
judgment in determining its appropriateness for a particular purpose. The user of the product is solely responsible for compliance with
all laws and regulations applying to the use of the products, including intellectual property rights of third parties. As the ordinary or
otherwise use(s) of this product is outside the control of New Directions Aromatics Inc., no representation or warranty, expressed or
implied, is made as to the effect(s) of such use(s), (including damage or injury), or the results obtained. The liability of New Directions
Aromatics Inc. is limited to the value of the goods and does not include any consequential loss. New Directions Aromatics Inc. shall not
be liable for any errors or delays in the content, or for any actions taken in reliance thereon. New Directions Aromatics Inc. shall not be
responsible for any damages resulting from use of or reliance upon this information. In the event of any dispute, the Customer hereby
agree that Jurisdiction is limited to the province of Ontario.