1. PRODUCT AND COMPANY IDENTIFICATION

- **Product name**: Eucalyptus Radiata Essential Oil
- **Botanical name**: Eucalyptus radiata
- **INCI name**: Eucalyptus Radiata Leaf/Stem Oil
- **CAS #**: 92201-64-4
- **Country of Origin**: Australia
- **EINECS #**: 295-995-3
- **Product use**: Domestic and Industrial
- **Supplier**: New Directions Aromatics Inc.
- **Address**: 6781 Columbus Road, Mississauga, Ontario, CANADA L5T 2G9
- **Fax**: 905-362-1926
- **Telephone number**: 905-362-1915
- **Emergency phone number**: (613)-996-6666 CANUTEC 24 HOUR EMERGENCY

2. HAZARDS IDENTIFICATION

**Emergency Overview**

**GHS Classification**
- Flammable Liquid - Category 3
- Acute toxicity (oral), Hazard - Category 4
- Skin Corrosion/Irritation - Category 2
- Aspiration Hazard - Category 1
- Skin Sensitization - Category 1
- Hazardous to aquatic environment, chronic hazard - Category 2

**GHS Label elements, including precautionary statements**

![Label Elements]

**Signal**: Warning

**Hazard statement(s)**
- H226: Flammable liquid and vapor.
- H302: Harmful if swallowed.
- H304: May be fatal if swallowed and enters airways.
- H315: Causes skin irritation.
- H317: May cause an allergic skin reaction.
- H411: Toxic to aquatic life with long lasting effects.
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>Eucalyptus Radiata Leaf/Stem Oil</td>
<td>92201-64-4</td>
<td>295-995-3</td>
<td>100 %</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

**Eye contact**

Causes serious eye irritation. If in eyes, immediately flush eyes with plenty of cool water for at least 15 minutes. Remove contact lenses if worn and accessible. Get medical attention if irritation occurs.

**Skin contact**

Wash contacted area thoroughly with soap and water. Remove exposed or contaminated clothing, taking care not to contaminate eyes. Seek medical attention if irritation develops.

**Inhalation**

If fumes or vapours are inhaled, or breathing difficulty is experienced, remove victim to fresh air. If necessary, use artificial respiration to support vital functions. Seek immediate medical attention if breathing difficulty persists.

**Ingestion**

If the chemical is swallowed, call a physician or poison control centre for the most current information. If no professional advice is available, DO NOT induce vomiting, rinse the mouth. Never induce vomiting or give diluents (milk or water) to someone who is unconscious, having convulsions or who cannot swallow. Victims of chemical exposure must be taken for medical attention. Take a copy of the label and SDS with the victim to a health professional.

5. FIRE FIGHTING MEASURES

**Suitable extinguishing media**

Carbon dioxide, foam, dry chemical, halon or water fog/mist.
Unsuitable extinguishing media
Do not use full water jet.

Special protective equipment and precautions for fire-fighters
Incipient fire responders should wear eye protection. Structural fire fighters must wear self-contained breathing apparatus and full protective equipment. Isolate materials not yet involved in the fire and protect personnel. Move containers from fire area if this can be done without risk; otherwise keep containers cool with carefully applied water spray/mist. If possible, prevent runoff water from entering storm drains, bodies of water or other environmentally sensitive areas.

Special hazards arising from the substance or its combustible products
This product is flammable & vapours may travel some distance and flash back if ignited. May produce toxic fumes of carbon monoxide and/or carbon dioxide and hydrocarbons if burning.

Resulting gases
Carbon oxides, fumes of carbon oxides and hydrocarbons.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures.
Proper protective equipment should be used (see Section 8). Personnel should be trained for spill response operations. Trained personnel following pre-planned procedures should handle non- incidental releases.

Environmental precautions
Prevent run-off into drains and waterways. Decontaminate area thoroughly. Do not mix with wastes from other materials. Dispose of in accordance with applicable Federal, State and Local procedures (see Section 13).

Methods and materials for containment and cleaning up
Contained spilled material using poly-pads or other suitable absorbent material. Avoid generating mists or sprays. Place all spill residues in an appropriate container and seal. Ventilate area and wash spill area after material pick up is complete.

7. HANDLING AND STORAGE

Precautions for safe handling
Read all labels before use. As with all chemicals; avoid getting this product on you or in you. Wear protective equipment (see Section 8) and wash thoroughly after handling this product. Do not eat, drink or smoke or apply cosmetics while handling this product. Avoid breathing mists or sprays generated by this product. Use in a well-ventilated location. Remove contaminated clothing immediately.

Conditions for safe storage, including any incompatibilities
Observe all Federal and State regulations pertaining to the storage and handling of flammable liquids. Store in a cool, dry, well-ventilated area away from direct sunlight. Keep containers tightly closed when not in use. Store away from sources of heat or ignition (sparks, open flame, hot surfaces). Store away from incompatible materials (oxidizing agents and acids). Inspect regularly for damage and leaks. Take precautionary measures against static discharge: Ground container and receiving equipment, use only non-sparking tools and use explosion proof electrical and other equipment.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure controls
Use with adequate ventilation to ensure exposure levels are maintained below the limits provided below.

Eyes
Splash goggles or safety glasses with side shields are recommended. If necessary, refer to US OSHA Standard 29 CFR 1910.133, the European Standard EN 166, the appropriate Australian Standards, Canadian Standards, or the relevant Japanese Standards.

Skin
HAND: Compatible protective gloves are recommended. Wash hands after removing gloves.
BODY: Use body protection appropriate to the task. Coveralls, rubber aprons or chemical protective clothing
made from natural rubber are generally acceptable depending on the task. If a hazard of injury to the feet exists due to falling objects, rolling objects or where objects may pierce the soles of the feet or where an employee’s feet may be exposed to electrical hazards, use foot protection in accordance with US OSHA 29 CFR 1910.136.
If necessary, refer to the appropriate Australian Standards, Canadian Standards, or the relevant Japanese Standards.

Respiratory
If exposure limits are exceeded, use only protection authorized in the US Federal OSHA Respiratory Standard 29 CFR 1910.134, equivalent US State Standards, Canadian CSA Standard Z94.4-93, the European Standard EN 149 or equivalent EU member State Standards.

Ingestion
Not for ingestion.

Exposure limit values
Not established.

9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Colorless to pale yellow liquid</td>
</tr>
<tr>
<td>Odor</td>
<td>Characteristic eucalyptol odor</td>
</tr>
<tr>
<td>Flash point</td>
<td>78 °C</td>
</tr>
<tr>
<td>Relative density</td>
<td>0.905 to 0.935 @ 20 °C</td>
</tr>
<tr>
<td>Solubility (ies)</td>
<td>Slightly soluble in water</td>
</tr>
<tr>
<td>Refractive index</td>
<td>1.450 to 1.470 @ 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
Excessive heat, sparks, flames and other sources of ignition.

Incompatible materials
Strong oxidizing or reducing agents. Protect from air.

Hazardous decomposition products
Carbon oxides and hydrocarbons.

11. TOXICOLOGICAL INFORMATION

Acute toxicity
Oral LD₅₀ rat: 5000 mg/Kg,
Dermal LD₅₀ rabbit: 2500mg/Kg.

Inhalation
Potential irritant. Over-exposure at high levels may result in mucous membrane irritation of the nose and throat with coughing.

Skin contact
Potential irritant. May cause erythema, irritation or edema if oil is oxidized. Repeated or prolonged skin contact may lead to allergic contact dermatitis.
Eye contact
Severe irritant. May cause redness, irritation or edema.

Ingestion
May be harmful if swallowed. May result in allergic dermatitis, hallucination, ataxia, diarrhea, central nervous system depression, sleep or coma.

Repeated exposure
With repeated exposure this product may cause damage to the following organs: Blood, skin, central nervous system.

12. ECOLOGICAL INFORMATION

Ecotoxicity
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
1993

UN proper shipping name
Flammable liquid, n.o.s. (Eucalyptus Oil)

Transport hazard class
3

Packing group
III

US DOT Shipping Description (Land)
1993

Proper shipping name
Flammable liquid, n.o.s. (Eucalyptus Oil)

Class
3

Packaging group
III

IMO-IMDG Shipping Description (Sea)
1993
Proper shipping name
Flammable liquid, n.o.s. (Eucalyptus Oil)

Class
3

Packaging group
III

IATA Shipping Description (Air)
1993

Proper shipping name
Flammable liquid, n.o.s. (Eucalyptus Oil)

Class
3

Packaging group
III

15. REGULATORY INFORMATION

California Proposition 65
This product does not contain any component above the 0.1% level which is listed as a California Proposition 65 Chemical.

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
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.