1. PRODUCT AND COMPANY IDENTIFICATION

<table>
<thead>
<tr>
<th>Product name</th>
<th>Cumin Essential Oil</th>
</tr>
</thead>
<tbody>
<tr>
<td>Botanical name</td>
<td>Cuminum cyminum</td>
</tr>
<tr>
<td>INCI name</td>
<td>Cuminum Cyminum Seed Oil</td>
</tr>
<tr>
<td>CAS #</td>
<td>84775-51-9 / 8014-13-9</td>
</tr>
<tr>
<td>Country of Origin</td>
<td>India</td>
</tr>
<tr>
<td>EINECS #</td>
<td>283-881-6</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.
- Skin corrosion/irritation - Category 2
- Skin sensitization - Category 1
- Hazardous to the aquatic environment, long-term hazard - Category 2

**GHS Label elements, including precautionary statements**

Signal: Warning

**Hazard statement(s)**

- H226: Flammable liquid and vapour.
- H315: Causes skin irritation.
- H317: May cause an allergic skin reaction.
- H411: 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/equipment.
P242  Use only non-sparking tools.
P243  Take precautionary measures against static discharge.
P261  Avoid breathing dust/fumes/gas/mist/vapours/spray.
P264  Wash skin thoroughly after handling.
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.
P302+P352  IF ON SKIN: Wash with plenty of 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.
P321  Specific treatment (see section 4 on this label).
P332+P313  If skin irritation occurs: Get medical advice/attention.
P333+P313  If skin irritation or a rash occurs: Get medical advice/attention.
P337+P313  If eye irritation persists get medical advice/attention.
P362  Take off contaminated clothing.
P363  Wash contaminated clothing before reuse.
P370+P378  In case of fire: Use appropriate fire extinguisher to extinguish.
P391  Collect spillage.
P403+P235  Store in a well ventilated place. Keep cool.
P501  Dispose of contents/container according to local regulations.

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>Estragole</td>
<td>140-67-0</td>
<td>205-427-8</td>
<td>65 - 85 %</td>
</tr>
<tr>
<td>Linalool</td>
<td>78-70-6</td>
<td>201-134-4</td>
<td>12 - 22 %</td>
</tr>
<tr>
<td>Linalool</td>
<td>78-70-6</td>
<td>201-134-4</td>
<td>12 - 22 %</td>
</tr>
<tr>
<td>Eucalyptol</td>
<td>470-82-6</td>
<td>207-431-5</td>
<td>0.2 - 2.5 %</td>
</tr>
<tr>
<td>cis-beta-Ocimene</td>
<td>3338-55-4</td>
<td>222-081-3</td>
<td>0.1 - 1.5 %</td>
</tr>
<tr>
<td>l-Limonene</td>
<td>5989-54-8</td>
<td>227-815-6</td>
<td>0.05 - 1 %</td>
</tr>
<tr>
<td>beta-Pinene</td>
<td>127-91-3</td>
<td>204-872-5</td>
<td>0.05 - 1 %</td>
</tr>
<tr>
<td>alpha-Pinene</td>
<td>80-56-8</td>
<td>201-291-9</td>
<td>0.05 - 1 %</td>
</tr>
<tr>
<td>Camphene</td>
<td>79-92-5</td>
<td>201-234-8</td>
<td>0.05 - 0.5 %</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
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
Use mechanical exhaust or laboratory fume hood to avoid exposure. Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

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
9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Yellow to golden yellow liquid.</td>
</tr>
<tr>
<td>Odor</td>
<td>Penetrative characteristic spicy odor.</td>
</tr>
<tr>
<td>Flash point</td>
<td>48 °C</td>
</tr>
<tr>
<td>Relative density</td>
<td>0.895 to 0.937 @ 25°C</td>
</tr>
<tr>
<td>Solubility</td>
<td>Soluble in alcohol and oils. Insoluble in water.</td>
</tr>
<tr>
<td>Refractive index</td>
<td>1.490 to 1.510 @ 20°C</td>
</tr>
<tr>
<td>Optical rotation</td>
<td>+1.0 to +8.0 @ 25°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
Cumin Essential Oil:
LD50 Oral: 2300 mg/kg
LD50 Dermal: 3275 mg/kg

Chronic toxicity
May cause allergic reactions on skin.

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.

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.

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

IMDG-Marine pollution
Yes.

IATA Shipping Description (Air)
Proper shipping name
Extracts, aromatic, liquid

Class
3

Packaging group
III

Emergency action in case of accident
Notify police and fire department immediately

15. REGULATORY INFORMATION

California Proposition 65
This product does not contain chemicals listed per the Safe Drinking Water and Enforcement Act of 1986.

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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