

## 1. PRODUCT AND COMPANY IDENTIFICATION

|                        |   |  |
|------------------------|---|--|
| Product name           | : | Lime Essential Oil - Key Lime (Peru)                     |
| Botanical name         | : | Citrus aurantifolia                                      |
| INCI name              | : | Citrus Aurantifolia Oil                                  |
| CAS #                  | : | 8008-26-2/90063-52-8                                     |
| Country of Origin      | : | Peru   |
| EINECS #               | : | 290-010-3  |
| 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 liquids - Category 3

Aspiration hazard - Category 1

Skin corrosion/irritation - Category 2

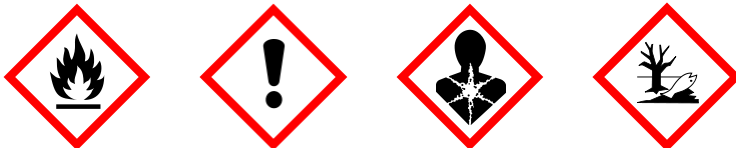
Skin sensitization - Category 1

Serious eye damage/eye irritation - Category 2A

Hazardous to the aquatic environment, acute hazard - Category 2

Hazardous to the aquatic environment, long-term hazard - Category 2

### 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.                 |
| H319 | Causes serious eye irritation.                       |
| H410 | Very toxic to aquatic life with long-lasting effects |

**Precautionary statement(s)**

|                |  |
|----------------|--|
| P210           | Keep away from heat/sparks/open flames/hot surfaces – 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.   |
| P301+P310      | IF SWALLOWED: Immediately call a POISON CENTER/doctor/   |
| P302+P352      | IF ON SKIN: Wash with plenty of water. Take off immediately all contaminated clothing.   |
| 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).  |
| P331           | Do NOT induce vomiting.  |
| P332+P313      | If skin irritation 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 foam to extinguish.   |
| P391           | Collect spillage.  |
| P403+P235      | Store in a well ventilated place. Keep cool.   |
| P405           | Store locked up.   |
| P501           | Dispose of contents/container according to local regulations.  |

**3. COMPOSITION / INFORMATION INGREDIENTS**

| Product Name       | CAS NO    | EC NO | Concentration |
|--------------------|-----------|-------|---------------|
| d-Limonene         | 5989-27-5 | -     | 30 - 100 %    |
| p-Mentha-1,4-diene | 99-85-4   | -     | 10 - 30 %     |
| Terpinolene        | 586-62-9  | -     | 3 - 10 %      |
| alpha-Terpineol    | 98-55-5   | -     | 3 - 10 %      |
| p-Mentha-1,3-diene | 99-86-5   | -     | 1 - 3 %       |
| 1,4-Cineole        | 470-67-7  | -     | 1 - 3 %       |

|                             |           |   |           |
|-----------------------------|-----------|---|-----------|
| p-Cymene                    | 99-87-6   | - | 1 - 3 %   |
| beta-Pinene                 | 127-91-3  | - | 1 - 3 %   |
| l-.beta.-Bisabolene         | 495-61-4  | - | 1 - 3 %   |
| Myrcene                     | 123-35-3  | - | 1 - 3 %   |
| 4-Carvomenthenol            | 562-74-3  | - | 1 - 3 %   |
| alpha-Pinene                | 80-56-8   | - | 1 - 3 %   |
| gamma-Terpineol             | 586-81-2  | - | 1 - 3 %   |
| trans-trans-alpha-Farnesene | 502-61-4  | - | 1 - 3 %   |
| Terpineol                   | 8000-41-7 | - | 1 - 3 %   |
| Eucalyptol                  | 470-82-6  | - | 1 - 3 %   |
| Camphene                    | 79-92-5   | - | 0.3 - 1 % |

#### 4. FIRST AID MEASURES

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##### **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

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##### **Suitable extinguishing media**

Foam. Dry Powder. Carbon dioxide.

##### **Unsuitable extinguishing media**

Water spray, water jet.

##### **Special protective equipment and precautions for fire-fighters**

Wear proper protective equipment and avoid inhalation of vapors. Exercise caution when fighting any chemical fire.

##### **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

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##### **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

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### 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

Store in full airtight containers protected from heat, direct sunlight and sources of ignition. It is preferable to store in cool conditions between 5 °C to 20 °C.

## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

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### 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

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|                  |   |                               |
|------------------|---|-------------------------------|
| Appearance       | : | Colorless transparent liquid. |
| Odor             | : | Fresh citrus lime             |
| Flash point      | : | 45 °C                         |
| Relative density | : | 0.8550 - 0.8670 @ 25°C        |
| Solubility (ies) | : | Insoluble in water.           |
| Refractive index | : | 1.4740 - 1.4780 @ 20°C        |
| Optical rotation | : | +32° to +47° @ 20°C           |

## 10. STABILITY AND REACTIVITY

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### 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

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### Acute toxicity

LD50 (Oral) - Rat : >5000 mg/kg  
LD50 (Dermal) - Rabbit : >5000 mg/kg

### **Respiratory or skin sensitization**

Causes sensitization.

### **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**

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### **Ecotoxicity**

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**

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

## **14. TRANSPORT INFORMATION**

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### **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)**

1169

**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**

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**GHS Hazard Statements**

See section 2.

**GHS Precautionary Statements**

See section 2.

**16. OTHER INFORMATION**

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**Disclaimer & Caution**

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