

1. PRODUCT AND COMPANY IDENTIFICATION

Product name	:	Lime Organic Essential Oil
Botanical name	:	Citrus Aurantifolia
Synonyms	:	Sri Lanka Organic Lime Oil (Distilled)
INCI name	:	Citrus Aurantifolia Oil
CAS #	:	8008-26-2/90063-52-8
Country of Origin	:	Sri Lanka
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 Liquid - Category 3

Acute Oral Toxicity - Category 5

Eye irritation - Category 2A

Skin irritation - Category 2

Skin Sensitization - Category 1

Aspiration Toxicity - Category 1

Hazardous to aquatic environment Short term/Acute - Category 2

Hazardous to aquatic environment Long term/Chronic - 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.
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.
P234	Keep only in original container.
P241	Use explosion-proof electrical/ventilating/lighting/equipment.
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.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.
P312	Call a POISON CENTER/ doctor/if you feel unwell.
P321	Specific treatment (see section 4 on this label).
P333+P313	If skin irritation or a rash occurs: Get medical advice/attention.
P337+P313	If eye irritation persists get medical advice/attention.
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
alpha-Pinene	-	-	1.00 to 2.50 %
beta-Pinene	-	-	0.50 to 3.00 %
Myracene	-	-	1.00 to 5.00 %
Limonene	-	-	45.0 to 52.0 %
gammaTerpinene	-	-	10.50 to 11.50 %
Terpinolene	-	-	7.00 to 11.0 %
alpha-Terpineol	-	-	6.00 to 9.00 %
Sabinene	-	-	0.20 to 0.40 %
beta-Bisabolene	-	-	0.60 to 2.50 %

4. FIRST AID MEASURES

Eye contact

Contact with the eyes can produce burning sensation. Irrigate with water immediately, continue flushing eyes with water for 15 minutes. Seek medical attention if irritation persists.

Skin contact

Skin contact can produce irritation, or itching of the skin. Remove contaminated clothing. Wash area with soap and water. If irritation occurs, get medical attention.

Inhalation

Remove to fresh air. Give oxygen if breathing is labored and seek medical advice. Avoid casual breathing. Signs of overexposure are dizziness and nausea.

Ingestion

Rinse mouth; dilute with milk or water and consult a physician immediately. Do not induce vomiting. Never give anything by mouth if victim is unconscious, is rapidly-losing or is convulsing.

5. FIRE FIGHTING MEASURES

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. 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 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

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

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

Appearance	:	Colorless to yellow clear liquid.
Odor	:	Characteristic lime odor with camphoraceous note.
Initial b.p and boiling range	:	182°C @ 760.00 mmHg
Flash point	:	45.56°C
Vapor pressure	:	0.8000 mmHg @ 25 °C

Relative density	:	0.8510 to 0.8800 @ 20 °C
Solubility (ies)	:	Insoluble in water.
Refractive index	:	1.4600 to 1.4900 @ 20°C
Optical rotation	:	+1.0° to +60.0° @ 20°C

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

None established.

Incompatible materials

Strong acids, strong alkalis and oxidizing agents.

Hazardous decomposition products

Carbon monoxide and unidentified organic compounds may be formed during combustion.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Oral: (LD50) 2650mg/kg Rat

Dermal: (LD50) > 5000 mg/kg Rabbit

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

Repeated or prolonged contact can cause redness, irritation and scaling of skin (dermatitis). 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

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

Sensitivity to air, Oxidizing agent, acid and alkali however long term degradation product may be arise.

Bio - accumulative potential

This product is unlikely to accumulate in the environment.

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. (Lime oil)

Transport hazard class

3

Packing group

III

US DOT Shipping Description (Land)

1993

Proper shipping name

Flammable liquid, n.o.s. (Lime oil)

Class

3

Packaging group

III

IMO-IMDG Shipping Description (Sea)

1993

Proper shipping name

Flammable liquid, n.o.s. (Lime oil)

Class

3

Packaging group

III

IATA Shipping Description (Air)

1993

Proper shipping name

Flammable liquid, n.o.s. (Lime oil)

Class

3

Packaging group

15. REGULATORY INFORMATION

California Proposition 65

- This product can expose you to beta-Myrcene, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

GHS Hazard Statements

Please refer to section 2.

GHS Precautionary Statements

Please refer to section 2.

16. OTHER INFORMATION

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Disclaimer & Caution

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