

MATERIAL SAFETY DATA SHEET

1. Identification of Substance/Preparation & Company

Lime Oil PRODUCT NAME: PRODUCT CODE: LIME

SUPPLIER: Green Valley Aromatherapy Ltd.,

505 Duncan Ave, Courtenay, BC CANADA V9N 2M6

Emergency Tel No: (250) 334-4836. Contact Person: Kelly Lees

2. Composition / Information on Ingredients

DEFINITION/BOTANICAL ORIGIN: The Volatile oil distilled from the highly acidic juice-emulsion that results from

crushing small sour whole fruits of the West Indian Lime Citrus aurantifolia

(Christman) Swingle (sometimes called Mexican type or key lime.)

H-No:3301.14 CAS No:8008-26-2 Status:natural CoE No:141 **FEMA:**2631 GRAS Additives:none

FDA:§182.2 IFRA: see section 16 Application: Aromatherapy, skin care, flavouring etc.

RIFM:monograph **EINECS:**9063-58-8 FCCIV:official RTECS:

INCI name: Citrus aurantifolia

3. Hazards Identification

Xn Harmful; R10 Flammable liquid.

4. First-Aid Measures

INHALATION: Remove from exposure site to fresh air. Keep at rest. Obtain medical attention.

EYE CONTACT: Rinse immediately with plenty of water for at least 15 minutes. Contact a doctor if symptoms

persist.

SKIN CONTACT: Remove contaminated clothes. Wash thoroughly with soap & water, flush with plenty of

water. If irritation persists, seek medical advice.

INGESTION: Rinse out mouth with water. Seek medical advice immediately.

OTHER: When assessing action take Risk & Safety Phrases into account (Section 15).

5. Fire Fighting Measures

EXTINGUISHING MEDIA: Use CO2, Dry Powder or Foam type Extinguishers, spraying extinguishing media to base of

flames. Do not use direct water jet on burning material.

SPECIAL MEASURES: Avoid vapour inhalation. Keep away from sources of ignition. Do not smoke, Wear positive

pressure self-contained breathing apparatus & protective clothing.

EXTINGUISHING PROCEDURES: Closed containers may build up pressure when exposed to heat and should be cooled with

water spray.

6. Accidental Release Measures

PERSONAL PRECAUTIONS: Avoid inhalation & direct contact with skin & eyes. Use individual protective equipment

(safety glasses, waterproof-boots, suitable protective clothing) in case of major spillages.

ENVIRONMENT PRECAUTIONS: Keep away from drains, soils, surface & ground waters.

CLEAN UP METHODS Remove all potential ignition sources. Contain spilled material. Cover with an inert or FOR SPILLAGES: non-combustible inorganic absorbent material, sweep up and remove to an approved

disposal container. Observe municipal, federal and local disposal regulations.

7. Handling & Storage

PRECAUTIONS IN HANDLING: Apply good manufacturing practice & industrial hygiene practices, ensuring proper

ventilation. Observe good personal hygiene. Do not eat, drink or smoke whilst handling.

STORAGE CONDITIONS: Store in tightly closed original container, in a cool, dry & ventilated area away from heat

sources & protected from light. Keep air contact to a minimum.

FIRE PROTECTION: Keep away from ignition sources & naked flames. Take precautions to avoid static

discharges in working area.

8. Exposure Controls/Personal Protection

RESPIRATORY PROTECTION: Avoid breathing product vapour. Apply local ventilation where possible.

VENTILATION: Ensure good ventilation of working area.

HAND PROTECTION: Avoid all skin contact. Use chemically resistant gloves if required.

EYE PROTECTION: Use safety glasses.

WORK / HYGIENE PRACTICES: Wash hands with soap & water after handling.

9. Physical & Chemical Properties

COLOUR: Colourless to green/yellow

APPEARANCE: Mobile liquid

Characteristic, mouth-watering citrus ODOUR:

FLASH POINT °C:

SPECIFIC GRAVITY @ 20°C: 0.852 - 0.870

OPTICAL ROTATION @ 20°C:

REFRACTIVE INDEX @ 20°C: 1.472 - 1.478

SOLUBILITY IN 75% ETHANOL @ 20°C:

SOLUBILITY IN VEGETABLE OILS: Soluble **SOLUBILITY IN WATER:** Insoluble

Typical Analysis by GLC/GCMS:

CONSTITUENT	PERCENTAGE
alpha Pinene	1.4
Camphene	0.5
beta Pinene	2.4
Alpha Terpinene	4.7
Limonene	50.2
Gamma Terpinene	10.6
p-cymene	1.0
Terpinolene	7.2
Fenchol	0.9
Alpha Bergamotene	0.6
Terpinen-4-ol	1.6
Cis beta Terpineol	0.7
Alpha Terpineol	5.6
Beta Bisabolene	1.2

10. Stability & Reactivity

REACTIVITY: It presents no significant reactivity hazards, by itself or in contact with water. Avoid contact

with strong acids, alkali or oxidizing agents.

DECOMPOSITION: Liable to cause smoke & acrid fumes during combustion: carbon monoxide, carbon dioxide

and other non-identified organic compounds may be formed.

11. Toxicological Information

Lime oil distilled has been found to be non-sensitizing, non-irritating, and non-phototoxic to human skin: see D.L.J. Opdyke (1974) FCT 12, 729.

12. Ecological Information

BIODEGRADABILITY: Data not available

PRECAUTIONS: Prevent surface contamination of soil, ground & surface water.

13. <u>Disposal Considerations</u>

Avoid disposing to drainage systems and into the environment. Seek expert advice.

14. Transport Regulations

ROAD (ADR/RID): Class 3 item 31/c RID no 301; ADR RN N/2301

AIR (IATA/ICAO): Class 3 Packing Group III

SEA (IMDG): 3036-1 Class 3 CHIP: See section 15

15. Regulatory Information According to Directive 88/379/EEC

HAZARDS: Harmful SYMBOLS: Xn

RISK PHRASES: R10 Flammable Liquid, R65 Harmful if swallowed

SAFETY PHRASES: S62 If swallowed do not induce vomiting. Seek medical advice immediately and show the

container and label. S16 Keep away from sources of ignition. No Smoking.

16. Other Information

Cosmetics Directive 7th Amendment: Restrictions may apply. A source of Limonene listed as a sensitiser. Check maximum usage levels for skin care products.

PACKAGING: TYPE SUITABILITY

Glass Yes
Lacquer lined steel/tin Yes
Aluminums Yes
HPPE No
F/HDPE Yes
Other Plastic No

SHELF LIFE

Minimum 12 months when stored within advised conditions. Re-test after 12 months then every 3 months, up to a maximum of 36 months.

Q.C REQUIREMENTS

In-line with general product specification. Always satisfy suitability for specific application.

The data provided in this material safety data sheet is meant to represent typical data/analysis for this product and is correct to the best of our knowledge. The data was obtained from current and reliable sources, but is supplied without warranty, expressed or implied, regarding its' correctness or accuracy. It is the user's responsibility to determine safe conditions for the use of this product, and to assume liability for loss, injury, damage or expense arising from improper use of this product. The information provided does not constitute a contract to supply to any specification, or for any given application, and buyers should seek to verify their requirements and product use.