

# MATERIAL SAFETY DATA SHEET

#### 1. Identification of Substance/Preparation & Company

PRODUCT NAME: Lemon Oil PRODUCT CODE: LEMON

**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 obtained by cold pressing of the peels of *Citrus limonum*.

H-No: CAS No:8008-56-8 Status:Natural CoE No: FEMA: Additives:None

FDA: IFRA: Application: Aromatherapy, Perfumery

RIFM: EINECS: Origin:Italy
INCI name: Citrus Limonum FCCIV:

RTECS:

## 3. Hazards Identification

Concentrated product. Do not ingest, use good housekeeping procedures when handling.

Combustible liquid (Non-Hazardous by ground)

Hazardous ingredients- Furocoumarin (a weak photo toxin if more than 10% concentration)

# 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 CO<sup>2</sup>, 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 & eves. 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: Pale greenish-yellow to yellow

APPEARANCE: Clear mobile liquid

ODOUR: Lemon, citrus peel

FLASH POINT °C: 45 – 53 R10 Flammable

**SPECIFIC GRAVITY @ 20°C:** 0.840 – 0.865

OPTICAL ROTATION @ 20°C: 60.80°

**REFRACTIVE INDEX @ 20°C:** 1.465 – 1.485

**SOLUBILITY IN 75% ETHANOL @ 20°C:** 

SOLUBILITY IN VEGETABLE OILS: Soluble
SOLUBILITY IN WATER: Insoluble

### Typical Analysis by GLC/GCMS:

CONSTITUENT	PERCENTAGE
Alpha Pinene	2.0
Beta Pinene	12.7
Sabinene	1.6
Myrcene	1.4
Limonene	68.0
Gamma Terpinene	7.0
P-Cymene	<1.0
Trans Beta Bergsmontene	0.2
Beta Caryophyllene	0.1
Bis-Citral	0.8
Beta Bisabolene	0.3
Neryl Acetate	0.3
Trans Citral	1.2
Gersnyl Acetate	0.3

#### 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

Non-Toxic. May be a dermal irritant or sensitizing in some people may cause an allergic dermatitis. Phototoxic so avoid sunlight and or use sunscreen after use for 24 hour period if more than 10% concentration is used. Liquid or vapor may irritate eyes, throat and lungs.

### 12. Ecological Information

BIODEGRADABILITY: Data not available

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

### 13. Disposal Considerations

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

### 14. Transport Regulations

ROAD (ADR/RID): n/a
AIR (IATA/ICAO): n/a
SEA (IMDG): n/a

CHIP: See section 15

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

HAZARDS: n/a
SYMBOLS: n/a
RISK PHRASES: n/a
SAFETY PHRASES: n/a

#### 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.