

# MATERIAL SAFETY DATA SHEET.

## 1. IDENTIFICATION OF SUBSTANCE/PREPARATION & COMPANY.

PRODUCT NAME: **LIME OIL**

SUPPLIER The Soap Kitchen, 11a South Street, Torrington, Devon, EX38 8AA.

Emergency Tel No: 01805 622944 Emergency Contact: Mr. Richard Phillips.

## 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: §182.20

IFRA: the *distilled* oil is not restricted

Application:

RIFM: monograph

EINECS: 9063-58-8

RTECS:

INCI name: CITRUS AURANTIFOLIA

FCCIV: official

## 3. HAZARDS IDENTIFICATION:

R10. Flammable liquid

Xn Harmful

## 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 mins. 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 mouth out with water. Seek medical advice **immediately**.

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

## 5. FIRE FIGHTING MEASURES.

EXTINGUISHING MEDIA RECOMMENDED: Use CO<sub>2</sub>, 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 & groundwaters.

CLEANING UP METHODS FOR SPILLAGES: Remove all potential ignition sources. Contain spilled material.

Cover with an inert or non-combustible inorganic absorbent material, sweep up and remove to an approved disposal container. Observe state, federal & local disposal regulations.

## **7. HANDLING & STORAGE.**

PRECAUTIONS IN HANDLING: Apply good manufacturing practice & industrial hygiene practices, ensuring proper ventilation. Observe good personal hygiene, and 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

ODOUR: Characteristic mouth-watering citrus

FLASH-POINT°C: 46

Specific Gravity @ 20°C: 0.8520 to 0.8700

REFRACTIVE INDEX @ 20°C: 1.4720 to 1.4780

SOLUBILITY IN WATER: Insoluble

## **10. STABILITY & REACTIVITY.**

REACTIVITY: It presents no significant reactivity hazards, by itself or in contact with water. Avoid contact with strong acids, alkali or oxidising agents.

DECOMPOSITION: Liable to cause smoke & acrid fumes during combustion: carbon monoxide, carbon dioxide & other non-identified organic compounds may be formed.

## **11. TOXICOLOGICAL INFORMATION.**

Lime oil distilled has been found to be non-sensitising, 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. DISPOSAL CONSIDERATIONS.**

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 UN 1993

SEA (IMDG): 3036-1 Class 3 UN No: 1993

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

**16. OTHER INFORMATION.**

Conc. % Limits:

**PACKAGING:**

Type	Suitability
Glass	Yes
Lacquer lined steel/tin	Yes
Aluminium	Yes
HPPE	No
F/HDPE	Yes
Other plastic	No

**SHELF-LIFE**

Min 12 months when stored within advised conditions.

**Q.C. REQUIREMENTS.**

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

Retest after 6 months.

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