



Material Safety Data Sheet

Lemon Essential Oil

1. PRODUCT & SUPPLIER DESCRIPTION

Trade Name Lemon essential oil

INCI Name Citrus Limonum

Supplier Contact

Naturally Balmy Ltd
30 Southbourne Road
Bournemouth
BH6 5AD
Tel: 01202 567046
e-mail: sales@naturallybalmy.co.uk

2. COMPOSITION / INFORMATION ON INGREDIENTS

DEFINITION/BOTANICAL ORIGIN: Lemon Oil is obtained by the cold pressing of lemon peel

H-No: 3301.33

CAS No: 8008-56-8

Status: natural

CoE No: 139

FEMA: 2625

Additives: none

FDA: §182.20

IFRA: restricted

Application:

RIFM: monograph

EINECS: 284-515-8

Pharm. Eur Name:

INCI name: CITRUS MEDICA LIMONUM

FCC IV: official

3. HAZARDS IDENTIFICATION:

R10 Flammable liquid

Concentrated product. Do not ingest. Observe good housekeeping procedures.

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 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 & 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. Avoid static discharges.

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 yellow to greenish yellow

APPEARANCE: Mobile liquid

ODOUR: Characteristic of fresh lemon peel

FLASH-POINT °C: 45-53

SPECIFIC GRAVITY AT 20 °C: 0.8480 to 0.8650

REFRACTIVE INDEX @ 20°C: 1.4650 TO 1.4850

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

LD₅₀ >5.0g/Kg (oral) rat; >5g/Kg (dermal) rabbit.

Irritation/Sensitisation-nil at 10% (human) and nil as 100%. 1/2000 dermatitis patients were sensitive to lemon oil.

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 Packaging group III UN 1993

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

CHIP: See section 1

15. REGULATORY INFORMATION

According to Directive 88/379/EEC

HAZARDS:

SYMBOLS:

RISK PHRASES: R10

SAFETY PHRASES: Flammable liquid

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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