

MATERIAL SAFETY DATA SHEET

ORGANIC LEMON OIL



SECTION 1: Identification of the substance/mixture and of the company/undertaking
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1.1 Product Identifier

Product Name: Lemon Oil, Organic

Biological Definition: The volatile oil obtained by cold pressing the peels of the fruits of Citrus limon (L.) Burm. (Fam. Rutaceae)

INCI Name: Citrus Limon Peel Oil

Synonyms & Trade Names: Lemon Oil Expressed

FEMA No.: 2625

FDA No.: §182.20

CoE No.: 139

CAS-No: 8008-56-8

EC No.:

EINECS No.: 84929-31-7

1.2 Details of the supplier of the safety data sheet

Company Identification:

G. Baldwin & Co.

173 Walworth Road,

LONDON, ENGLAND. SE17 1RW.

Telephone: +44 (0) 207 703 5550 Fax: +44 (0)207 252 6264

E-mail: info@baldwins.co.uk

Web: www.baldwins.co.uk

1.3. Emergency telephone number

Emergency tel: +44 (0) 207 703 5550

(office hours only)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (67/548/EEC)

Xn+N; R10-38-43-51/53-65, S24-37-61-62

Classification (EU 1272/2008)

UN-GHS: FL 3, AH 1, SCI 2, SS 1, EH A2,C2

EU-CLP: FL 3, AH 1, SCI 2, SS 1, EH A2,C2

2.2 Label elements

Label in accordance with Regulation (EC) No 1272/2008

GHS Label:

GHS02 GHS07 GHS08 GHS09

Signal word:

Danger

Contains

Limonene, pinenes, gamma-terpinene, citral, myrcene

Hazard Statements:

H226 Flammable liquid and vapour

H304 May be fatal if swallowed and enters airways

H315 Causes skin irritation

H317 May cause an allergic skin reaction

H411 Toxic to aquatic life with long-lasting effects

Precautionary Statements:

P262 Do not get in eyes, on skin or on clothing

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P273 Avoid release to the environment

P301/310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P331 Do NOT induce vomiting

Supplementary Precautionary

Statements:

P391 Collect spillage

Risk phrases and Safety phrases in full refer to Section 16 – Other Information

2.3 Other hazards

Adverse physio-chemical properties

Combustible but will not ordinarily self-ignite.

Adverse effects on human health

Skin condition can cause sensitisation.

SECTION 3: Composition/information on ingredients

3.1 Substances

68% Limonene UN-GHS: SCI 2; SS 1; EH A1, C1

13% Pinenes UN-GHS: ATO 5(3700), SCI 2, SS 1

8.5% gamma-Terpinene UN-GHS: ATO 5(3850); SCI 3

2% Citral UN-GHS: ATO 5(4950); ATD 5(2250); SCI 2; SS 1; EH A2

1.6% Myrcene UN-GHS: EDI 2A, SCI 2

0.2% beta-Caryophyllene UN-GHS: SCI 3

3.2 Mixtures

EU INCI

US INCI

N/A

N/A

flamme

GHS08

SECTION 4: First aid measures

4.1 Description of first aid measures

General Information

See categories below

Inhalation

Remove from exposure area to fresh air. Contact a doctor if necessary.

Ingestion

Wash mouth out with water and obtain medical advice immediately.

Skin Contact

Remove contaminated clothing. Wash thoroughly with soap and water. Seek medical advice if irritation persists or there is any sign of tissue damage.

Eye Contact

Flush with plenty of water and seek medical advice if necessary.

4.2 Most important symptoms and effects, both acute and delayed

N/A

4.3 Indication of any immediate medical attention and special treatment needed

N/A

SECTION 5: Fire fighting measures
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5.1 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.

5.2 Special hazards arising from the substance or mixture.

None

5.3 Advice for fire-fighters

Wear protective clothing. Avoid inhalation of vapours. Closed containers may build up pressure when exposed to heat and should be cooled with water spray.

SECTION 6: Accidental release measures

6.1 Personal precautions

Maintain good occupational and personal hygiene. Avoid contact with skin and eyes.

6.2 Environmental precautions

Do not discharge directly into drains or soil. Keep away from surface and ground water.

6.3 Methods and material for containment and cleaning up

Soak up spillage with sand or other inert material. Transfer soaked material to suitable waste container and dispose according to prevailing regulations.

6.4 References to other sections.

Please refer to Section 8 – Exposure controls/personal protection for further information on personal precautions

Please refer to Section 13 – Disposal Considerations for further information on waste treatment.

SECTION 7: Handling and Storage
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7.1 Precautions for safe handling

Apply good manufacturing practice & industrial hygiene practices, ensuring proper workplace ventilation. Observe good personal hygiene, and do not eat, drink or smoke whilst handling.

7.2 Conditions for safe storage, including any incompatibilities

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.

7.3 Specific end use(s)

N/A

SECTION 8: Exposure controls/personal protection

8.1 Control Parameters

None

8.2 Exposure Controls

Eye protection: Use safety glasses.

Hand protection: Avoid all skin contact. Use chemically resistant gloves if required.

Respiratory Equipment: As required. Avoid breathing product vapour.

Hygiene Measures: Wash hands with soap & water after handling.

Engineering Measures: Ensure good ventilation of working area.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Mobile liquid

Colour

Yellow

Odour

Characteristic, fresh lemon peel

Relative Density

0.847 to 0.857 @ 20°C

Flash Point (°C)

N/A

Refractive Index

1.472 to 1.478 @ 20°C

Melting Point (°C)

N/A

Boiling Point (°C)

N/A

Vapour Pressure

N/A

Solubility in Water @20°C

N/A

Auto-ignition temperature (°C)

N/A

9.2 Other information

N/A

SECTION 10: Stability and reactivity

10.1 Reactivity

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

10.2 Chemical stability

Stable under normal temperature conditions.

10.3 Possibility of hazardous reactions

None

10.4 Conditions to avoid

Avoid storage temperatures above 25°C.

10.5 Incompatible materials

Avoid contact with strong acids, alkalis and oxidising agents.

10.6 Hazardous decomposition products

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

SECTION II: Toxicological information
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II.1 Information on toxicological effects.

Acute toxicity:

Acute oral toxicity: LD₅₀ oral rat >2840 mg/kg (NIOSH 1975)

Dermal toxicity: LD₅₀ skin rabbit >5000.00 mg/kg FCTXAV 12,725 (1974)

Skin corrosion / irritation:

Skin irritation skin-rabbit 500.00 mg/24hours moderate FCTXAV 12,725 (1974)

Hazard Category 2 under EC 1272//2008 guidelines

Serious eye damage/irritation:

Not classified under EC 1272/2008 guidelines.

Respiratory or skin sensitisation:

Skin sensitizer Hazard Category I under EC 1272/2008 guidelines

Germ cell mutagenicity:

The mutagenicity and photomutagenicity of the mixtures of coumarins and furocoumarins in lemon oil have not been assessed.

Carcinogenicity:

Not listed by as a known carcinogen by IARC, UN NTP, Calif Prop 65, US EPA and TRIC.

Reproductive toxicity:

Not listed under Calif. Prop 65, or by US TRI as a developmental toxin

STOT-single exposure:

No data found

STOT-repeated exposure:

No data found

Aspiration hazard:

Aspiration Hazard Category I under EC 1272/2008 guidelines.

Other information:

The phototoxicity elicited by cold-pressed lemon oil has been associated with naturally occurring and furocoumarins & coumarins. Two of these furocoumarins, 5-methoxypsoralen and oxypeucedanin, are the probable phototoxins but the concentration of these furocoumarins have been found to vary significantly with growing conditions

SECTION 12: Ecological information

12.1 Toxicity

Listed as Acute aquatic hazard Category 2 & Chronic aquatic hazard long-term Category 2 Under EC 1272/2008.

12.2 Persistence and degradability

No data found.

12.3 Bio-accumulative potential

No data found.

12.4 Mobility in soil

No data found.

12.5 Results of PBT and VPVB assessment

No data found.

12.6 Other adverse effects

N/A

SECTION 13: Disposal considerations
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13.1 Waste Treatment Methods

Do not release into the environment. Collect waste into suitable containers and contact hazardous chemical disposal company.

SECTION 14: Transport information
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Warning Icon

Proper Shipping Name

EXTRACTS, AROMATIC, LIQUID

UN No. Road

UN 1169

ADR Class

Class 3

Hazard No (ADR)

30

Hazchem Code

3YE

UN No. SEA

UN 1169

IMDG Class

Class 3

IMDG Pack Gr.

Pk Gp III

EMS

F-E, S-D

UN No. AIR

UN 1169

Air Class

Class 3

Air Pack Gr.

Pk Gp III

File:HAZMAT Class 3 Flammable Liquids.png

File:HAZMAT Class 3 Flammable Liquids.png

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

EU Directives:

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18th Dec 2006 Concerning the

Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European

Chemicals Agency, amending Directive 199/45/EC and repealing Council Regulation Council Regulation (EEC)

No793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and

Commission Directives 91/155/EEC, 93/67/EEC, and 93/105/EEC and 2000/21/EC including amendments.

Statutory Instruments:

The Chemicals (Hazard Information and Packaging for Supply Regulations 2009 (S.I. 2009 No 716)).

Approved Code of Practice:

Classification and Labelling of Substances and Preparations Dangerous for Supply. Safety Data

Sheets for Substances and Preparations:

Guidance Notes :

Workplace Exposure Limits EH40. CHIP for everyone HSG 108.

15.2 Chemical safety assessment

An assessment has not been executed as this is not a hazardous material according to article 31 of REACH 1907/2006.

SECTION 16: Other information

Training instructions: Refer to possible hazard before use of this product.

Abbreviations and acronyms:

MSDS

Material Safety Data Sheet

INCI

International Nomenclature of Cosmetic Ingredients

CAS

Chemical Abstract Service

IMDG

International Maritime Code for Dangerous Goods

ADR

Accord européen sur le transport des marchandises dangereuses par Route
(European Agreement concerning the International Carriage of Dangerous
Goods by Road)

RID

International Carriage of Dangerous Goods by Rail

ICAO

International Civil Aviation Organization

ADN

International Carriage of Dangerous Goods by Inland Waterways

GHS

Globally Harmonized System of Classification and Labelling of Chemicals

Trem Card

Transport Emergency Card

STOT

Specific Target Organ Toxicity

N/A

Not Available

Risk Phrases in full:

R10 Flammable

R38 Irritating to skin

R43 May cause sensitisation by skin contact

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

R65 Harmful may cause lung damage if swallowed.

Hazard Statements in full:

H226 Flammable liquid and vapour

H304 May be fatal if swallowed and enters airways

H315 Causes skin irritation

H317 May cause an allergic skin reaction

H411 Toxic to aquatic life with long-lasting effects.

Complies with REACH guidance for SDS as circulated by ECHA 2011.

Disclaimer:

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