



**AMPHORA AROMATICS
LIMITED**

essential oils, skincare & aromatherapy products

SAFETY DATA SHEET

1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

PRODUCT NAME: **Lemon Organic Essential Oil**

SUPPLIER: Amphora Aromatics Limited, Airfield House, Western Drive, Bristol, BS14 0AF

TELEPHONE: +44 (0)117-9087770.

PRODUCT NUMBER: **279**

CAS NUMBER: 8008-56-8 / 84929-31-7

EC NUMBER: 284-515-8

INCI: *Citrus limon* peel Oil

BIOLOGICAL DEFINITION: *Citrus limon* peel oil is the volatile oil obtained by cold compression of the fresh peel of the lemon, *citrus limon (l.) rutaceae*.

2: HAZARDS IDENTIFICATION

CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

CLASSIFICATION (EC 1272/2008):

- PHYSICAL HAZARDS: Flammable Liquid, Hazard Category 3. H226
- HEALTH HAZARDS: Skin Corrosion / Irritation Category 2. H315
Sensitization - Skin Category 1. H317
Aspiration Hazard Category 1. H304
- ENVIRONMENTAL HAZARDS: Hazardous to The Aquatic Environment - Acute Hazard Category 1. H410

LABEL ELEMENTS

PICTOGRAM:



SIGNAL WORD:

DANGER

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.
H410, Very Toxic to Aquatic Life with Long Lasting Effects.

PRECAUTIONARY STATEMENTS:

P210, Keep Away from Heat, Sparks, Open Flames and Hot Surfaces. -
No Smoking.
P241, Use Explosion-Proof Electrical, Ventilating and Lighting
Equipment.
P262, Do Not Get in Eyes, On Skin or On Clothing.
P273, Avoid Release to The Environment.
P280, Wear Protective Gloves/Eye Protection/Face Protection.
P301/310, If Swallowed: Immediately Call A Poison Centre or
Doctor/Physician.

SDS: **279 Lemon Organic Essential Oil**

Compiled by: Johndan Chilcott, Regulatory Affairs - Approved by Woody Evans, Director – Date: 28/01/2020 - Version: 3



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SUPPLEMENTARY PRECAUTIONARY
STATEMENTS:

CONTAINS:

P303/361/353, If on Skin (Or Hair): Remove/Take Off Immediately All Contaminated Clothing. Rinse Skin with Water/Shower.

P331, Do Not Induce Vomiting.

P405, Store Locked Up.

P501, Dispose of Contents/Container to Approved Disposal Site, In Accordance with Local Regulations.

Limonene, Pinenes, Citral, Myrcene

3: COMPOSITION/INFORMATION ON INGREDIENTS

~66.0% Limonene

CAS NUMBER: 5989-27-5

CLASSIFICATION (EC 1272/2008):

EC NUMBER: 227-813-5

Flam. Liq. 3 - H226

Skin Irrit. 2 - H315

Skin Sens. 1 - H317

Asp. Tox. 1 - H304

Aquatic Acute 1 - H400

Aquatic Chronic 1 - H410

~13.0% B-Pinene

CAS NUMBER: 127-91-3

CLASSIFICATION (EC 1272/2008):

EC NUMBER: 204-872-5

Flam. Liq. 3 - H226

Asp. Tox. 1 - H304

Skin Irrit. 2 - H315

Skin Sens. 1 - H317

~9.0% Γ - Terpinene (P-Mentha-1,4-Diene)

CAS NUMBER: 99-85-4

CLASSIFICATION (EC 1272/2008):

EC NUMBER: 202-794-6

Flam. Liq. 3 - H226

Asp. Tox. 1 - H304

~3.0% Citral

CAS NUMBER: 5392-40-5

CLASSIFICATION (EC 1272/2008):

EC NUMBER: 226-394-6

Skin Irrit. 2 - H315

Eye Irrit. 2 - H319

Skin Sens. 1 - H317

~2.5% A-Pinene

CAS NUMBER: 80-56-8

CLASSIFICATION (EC 1272/2008):

EC NUMBER: 226-394-6

Flam. Liq. 3 - H226

Asp. Tox. 1 - H304

Skin Sens. 1 - H317

Aquatic Acute 1, Aquatic Chronic 1 - H410

~1.5% Sabinene

CAS NUMBER: 3387-41-5

CLASSIFICATION (EC 1272/2008):

EC NUMBER: 222-212-4

Flam. Liq. 3 - H226

~1.5% Myrcene

CAS NUMBER: 123-35-3

CLASSIFICATION (EC 1272/2008):

EC NUMBER: 204-622-5

Flam. Liq. 3 - H226

Asp. Tox. 1 - H304

Aquatic Chronic 3 - H412

The full text for all hazard statements is displayed in Section 16.

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4: FIRST AID MEASURES

INHALATION:	Get medical attention immediately. Remove from exposure site to fresh air, keep at rest, and obtain medical attention.
INGESTION:	Get medical attention immediately. Rinse mouth with water and obtain medical attention.
SKIN CONTACT:	Remove contaminated clothes. Wash thoroughly with soap and water. Contact physician if irritation persists.
EYE CONTACT:	Flush immediately with water for at least 15 minutes. Contact physician if symptoms persist.
GENERAL INFORMATION:	Always remove contaminated clothing immediately.

MOST IMPORTANT SYMPTOMS & EFFECTS (ACUTE & DELAYED):

- INHALATION: May cause coughing and difficulties in breathing.
- INGESTION: Irritating to the respiratory tract and may cause damage to the central nervous system.
- SKIN CONTACT: Toxic in contact with skin.
- EYE CONTACT: May cause eye irritation.

5: FIREFIGHTING MEASURES

EXTINGUISHING MEDIA RECOMMENDED:	Foam, CO ₂ , Dry Chemical Powder.
SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE:	Burning produces irritating, toxic and obnoxious fumes.
ADVICE FOR FIREFIGHTERS:	Wear positive pressure self-contained breathing apparatus (scuba) and appropriate protective clothing.

6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS:	Ensure adequate ventilation of the working area, evacuate personnel to safe area, wear suitable protective equipment. No smoking, sparks, flames or other sources of ignition near spillage. Avoid contact with skin, eyes and clothing.
ENVIRONMENT PRECAUTIONS:	Do not discharge into drains, water courses or onto the ground. Dispose of in line with local authority guidelines.
CLEANING UP METHODS FOR SPILLAGES:	Remove ignition sources. Provide adequate ventilation. Avoid excessive inhalation of vapours. Contain spillage immediately by use of sand or inert powder. Dispose of according to local regulations.

7: HANDLING AND STORAGE

USAGE PRECAUTIONS:	Handle in accordance with good hygiene and safety practice. Keep away from heat, sparks, open flames and hot surfaces. - no smoking. Use personal protective equipment as required.
OCCUPATIONAL HYGIENE:	Use in accordance with good manufacturing and industrial hygiene practices. Use in areas with adequate ventilation. Do not eat, drink or smoke when using this product.
STORAGE PRECAUTIONS:	Keep container tightly sealed. Keep in a dry and ventilated area. Keep away from potential sources of ignition and protected from light. Maintain limited contact with oxygen.



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8: EXPOSURE CONTROLS/PERSONAL PROTECTION

PROTECTIVE EQUIPMENT:



APPROPRIATE ENGINEERING CONTROLS:

Ensure work area is well ventilated. Provide safety shower and eye bath.

EYE/FACE PROTECTION:

Wear eye/face protection.

HAND PROTECTION:

Wear protective gloves.

OTHER SKIN AND BODY PROTECTION:

Wear protective clothing to reduce the risk of skin and eye contact.

HYGIENE MEASURES:

Good personal hygiene practises are always advisable, especially when working with chemicals including oils.

RESPIRATORY PROTECTION:

Under normal conditions of use and where adequate ventilation is available to prevent build-up of excessive vapour, this material should not require special engineering controls. However, in conditions of high or prolonged use, or high temperature or other conditions which increase exposure, the following engineering controls can be used to minimise exposure to personnel: A) Increase ventilation of the area with local exhaust ventilation. B) Personnel can use an approved, appropriately fitted respirator with organic vapour cartridge or canisters and particulate filters. C) Use closed systems for transferring and processing this material also refer to sections 2 and 7.

ENVIRONMENTAL EXPOSURE CONTROLS:

Avoid discharging into drainage water.

PERSONAL PROTECTION:

Avoid inhalation of the product. Avoid contact with skin and eyes.

9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:

Liquid.

COLOUR:

Yellow to Light Green.

ODOUR:

Characteristic – Fresh, Lemony, Sweet & Fruity.

FLASH POINT °C:

49°C

SPECIFIC GRAVITY @ 20°C:

0.846 – 0.856

REFRACTIVE INDEX @ 20°C:

1.472 – 1.478

SOLUBILITY IN WATER @ 20°C

Insoluble in water. (Soluble in alcohol and other oils).



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10: STABILITY AND REACTIVITY

REACTIVITY:	Presents no significant reactivity hazards, by itself or in contact with water. Stable under normal temperature and storage conditions and recommended use.
CHEMICAL STABILITY:	Stable under suggested storage conditions (<15°C).
POSSIBILITY OF HAZARDOUS REACTIONS:	No.
CONDITIONS TO AVOID:	Storage at high temperatures. Do not store above 15°C.
INCOMPATIBLE MATERIALS:	P.V.C.
HAZARDOUS DECOMPOSITION PRODUCTS:	This product does not decompose under normal conditions. Under fire conditions the product will produce a mixture of irritating fumes, smoke and carbon monoxide.

11: TOXICOLOGICAL INFORMATION

ACUTE TOXICITY:	
- LD50:	5'000mg/kg bw (oral - rat).
- LD50:	10'000mg/kg bw (dermal- rabbit)
Skin Irritation:	Considered a skin irritant (route: drm). There may be irritation and redness at site of contact.
Eye Damage or Irritation:	Not classified as irritating to the eye
Respiration or Skin Sensitivity:	May cause an allergic skin reaction.
Germ Cell Mutagenicity:	Negative.
Carcinogenicity:	Not applicable.
Reproductive Toxicity:	Not applicable.
STOT – Single Exposure:	Not applicable.
STOT – Repeated Exposure:	Not applicable.
Aspiration Hazard:	May be fatal if swallowed and enters airways.
Other Information:	No data.

12: ECOLOGICAL INFORMATION

TOXICITY:	
- AQUATIC LIFE:	H410; Very toxic to aquatic life with long lasting effects.
- ALGAE/AQUATIC PLANTS:	EC50/LC50 for freshwater algae: 0.523 mg/l (Source CSR).
- FISH:	LC50 for freshwater fish: 0.341 mg/l (Source CSR).
- AQUATIC INVERTEBRATES:	EC50/LC50 for freshwater invertebrates; 0.313 mg/l (Source CSR).
- PNECS:	Water: aqua (freshwater): 5.4 µg/l Aqua (marine water): 0.54 µg/l Aqua (intermittent release): 577 µg/l Sediment (freshwater): 1.3 mg/kg sediment dw Sediment (marine water): 0.13 mg/kg sediment dw Sewage treatment plant: 2.1 mg/l Soil: 0.261 mg/kg soil dw Oral: 13.3 mg/kg
PERSISTENCE AND DEGRADABILITY:	To be considered as readily biodegradable based on its ready biodegradability. Oil does not fulfil the criteria for persistence.
BIOACCUMULATIVE POTENTIAL:	Bio-accumulation potential
MOBILITY IN SOIL:	Considered as a readily biodegradable NCS. Based on the ready biodegradability of the NCS, simulation tests in surface water, sediment and soil are not required in accordance with effects.



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RESULTS OF PBT AND VPVB ASSESSMENT: This substance does not meet the PBT/vPvP criteria of REACH, Annex XIII

PRECAUTIONS: Do not allow product to enter streams, sewers or other waterways.

13: DISPOSAL CONSIDERATIONS

DISPOSAL METHODS: Always recover spilled product. Discard waste material with authorised waste management services. Act in accordance with local & national waste regulations.

14: TRANSPORT INFORMATION

UN No. (ROAD/SEA/AIR): UN1169
PROPER SHIPPING NAME: Extracts, Aromatic, Liquid.

TRANSPORT HAZARD CLASS(ES):

- ADR/RID/ADN CLASS: 3 Flammable Liquid.
- IMDG CLASS: 3 Flammable Liquid.
- ICAO CLASS: 3 Flammable Liquid.



PACKING GROUP:

- ADR/RID/ADN PACKING GROUP: III
- IMDG PACKING GROUP: III
- ICAO PACKING GROUP: III

ENVIRONMENTAL HAZARDS: Environmentally hazardous/
marine pollutant.



SPECIAL PRECAUTIONS FOR USER: Tariff code: 3301131000. This product contains flammables and dangerous for the environment. In case on pouring out, make sure label new packaging accordingly. Reproducing original label with relevant symbols.

TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL73/78 AND THE IBC CODE: No additional data.

15: REGULATORY INFORMATION

STATUTORY INSTRUMENTS: The Chemicals (Hazard Information & Packaging for Supply) Regulations 2009 (S.I.2009 NO 716).

EU LEGISLATION: Regulation (EC) No 1907/2006 of the European Parliament and of the council of 18th December 2006. Concerning the registration, evaluation, authorization & restriction of chemicals (reach), establishing a European Chemicals Agency, amending directive 1999/45/EC and repealing council regulation (EEC) No793/93 & commission regulation (EC) No1488/94 as well as council directive 76/769/EEC & commission directive 91/155/ECC, 93/67/ECC, 93/105/EEC & 2000/21/EC (including amendments).

GUIDANCE: Workplace Exposure Limits EH40. Chip for Everyone HSG 108.



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16: OTHER INFORMATION

HAZARD STATEMENTS IN FULL:

H315 Causes Skin Irritation.
H226 Flammable Liquid and Vapour.
H304 May Be Fatal If Swallowed and Enters Airways.
H317 May Cause an Allergic Skin Reaction.
H410 Very Toxic to Aquatic Life with Long Lasting Effects.

Q.C. REQUIREMENTS.

In-line with general product specification. Always satisfy suitability for specific application.
Retest after 6 months.

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.