

# AKÖMA™

## FROM THE HEART

### MATERIAL SAFETY DATA SHEET

#### 1 - Identification of Product and Supplier

|                                    |   |                |         |                   |            |
|------------------------------------|---|----------------|---------|-------------------|------------|
| <b>Product Name:</b>               | <b>Lemon Essential Oil Organic</b>  |                |         |                   |            |
| <b>Biological Definition:</b>      | The volatile oil obtained by cold pressing the peels of the fruits of Citrus limon (L.)<br>Burm. (Fam. Rutaceae)                |                |         |                   |            |
| <b>INCI Name:</b>                  | Citrus Medica Limonum Peel Oil  |                |         |                   |            |
| <b>Synonyms &amp; Trade Names:</b> | Lemon Oil Expressed   |                |         |                   |            |
| <b>Internal Product Code:</b>      | R00231  |                |         |                   |            |
| <b>FEMA No.:</b>                   | 2625  | <b>FDA No.</b> | §182.20 | <b>CoE No.</b>    | 139        |
| <b>CAS-No:</b>                     | 8008-56-8   | <b>EC No.</b>  |         | <b>EINECS No.</b> | 84929-31-7 |
| <b>Supplier:</b>                   | <b>Akoma International (UK) LTD</b><br>Unit 9A Sawley Park<br>Nottingham Road<br>Derby<br>DE21 6AS<br>Tel: +44 (0) 1332 613 967 |                |         |                   |            |
| <b>Emergency Contact:</b>          | Mr. Wynn Mensah – Tel: 01332 613 967  |                |         |                   |            |

#### 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

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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  
P391 Collect spillage

**Supplementary**

**Precautionary Statements:**

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**

Skincondition can cause sensitisation.

**3 - Composition and 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**

N/A

**US INCI**

N/A

**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

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## 5 - Fire - Fighting measures:

### 5.1 Extinguishing Media

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.

### 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.

## 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.

## 7 - Handling and storage:

### 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

## 8 - Exposure controls and 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.

## 9 - Physical data and chemical properties:

### 9.1 Information on basic physical and chemical properties

|                         |  |
|-------------------------|--|
| Appearance              | Pale greenish-yellow to yellow, clear, mobile liquid |
| Odour                   | Characteristic, fresh lemon peel                     |
| Specific Gravity @ 20°C | 0.847 – 0.857  |
| Refractive index @ 20°C | 1.472 – 1.478  |
| Optical Rotation @ 20°C | + 57 to + 72   |

### 9.2 Other information

N/A

## 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.

## 11 - Toxicological information:

|                                    |   |
|------------------------------------|---|
| Acute toxicity:                    | Acute oral toxicity: LD50 oral rat >2840 mg/kg (NIOSH 1975)<br>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)<br>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 1 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 1 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 |

## 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

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*Lemon Essential Oil Organic - MSDS*

No data found.

## 12.6 Other adverse effects

N/A

## 13 - Disposal Considerations:

### 13.1 Waste Treatment Methods

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

## 14 - Transport Information:



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

## 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

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*Lemon Essential Oil Organic - MSDS*

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

## 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.

### 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 it's' 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.

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