

# AKÖMA™

## FROM THE HEART

### MATERIAL SAFETY DATA SHEET

#### 1 - Identification of Product and Supplier

Product Name: **Mandarin Essential Oil**  
Supplier: **Akoma International (UK) LTD**  
Unit 9A Sawley Park  
Nottingham Road  
Derby  
DE21 6AS  
Tel: +44 (0) 1332 613 967  
Emergency Contact: Mr. Wynn Mensah – Tel: 01332 613 967

#### 2 - Composition and information on ingredients:

Inci Name: **Citrus nobilis (Mandarin Orange) Peel Oil**  
Chemical composition: **Citrus Nobilis Peel Oil Expressed is an essential oil expressed from the epicarps of the Mandarin, Citrus Nobilis, Rutaceae**  
CAS No: **8008-31-9/84929-38-4**  
EINECS No: **-/284-521-0**  
Application: Aromatherapy, Skincare

#### 3 - Hazards identification:

Xn - Harmful; N - Dangerous for the environment

#### 4 - First aid measures:

Inhalation: Remove from exposure site to fresh air. Check for and remove lenses. Keep at rest. Seek medical advice.

Skin contact: Remove contaminated clothes. Cover Wash with water and soap; cover the irritated skin with emollient – may need to seek medical advice.

Eye contact: Flush with water for at least 15 minutes. Contact a doctor if symptoms persist.

Ingestion: Not to be consumed in any circumstances. Rinse mouth out with water and seek medical advice **immediately**.  
Other: When assessing action take into account Risk & Safety Phrases (Section 15)

## 5 - Fire - Fighting measures:

Extinguishing media: Use CO<sub>2</sub>, Dry Powder or Foam type Extinguishers  
Spraying recommended: Extinguishing media to base of flames.  
Extinguishing media to avoid: Water  
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 & ground waters.  
Cleaning up methods: 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 and storage:

Precautions in handling: Apply good manufacturing practice & industrial hygiene practices, ensuring proper ventilation. Observe good personal hygiene, 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.  
General Handling Precautions Handle in accordance with good occupational hygiene and safety

## 8- Exposure controls and personal protection:

Respiratory Control: Where ventilation may be inadequate, wear self-contained breathing apparatus. Avoid breathing product vapour.  
Hand / Skin Protection: Wear impervious gloves – avoid all skin contact.  
Eye Protection: Wear eye protection e.g. safety goggles / glasses. Work  
/ Hygiene practices: Wash hands with soap and water after handling

## 9- Physical data and chemical properties:

<u>Colour:</u>	Yellow-red through to orange-brown liquid
<u>Appearance:</u>	Mobile liquid
<u>Odour:</u>	Characteristic, bland
<u>Specific gravity @ 20°C:</u>	0.835 – 0.855
<u>Refractive index @ 20°C:</u>	1.465 – 1.488

## 10 - Stability and Reactivity:

<u>Reactivity:</u>	It presents no significant reactivity hazards, by itself or in contact with water. Avoid contact with strong acids, alkali or oxidising agents.
<u>Decomposition:</u>	Liable to cause smoke & acrid fumes during combustion: carbon monoxide, carbon dioxide & other non-identified organic compounds may be formed.
<u>Shelf Life:</u>	Min 12 months when stored in nitrogen flushed containers

## 11 - Toxicological information:

LD50 orl rat >5g/kg. See FCT 1992 (30 suppl.) p69.

## 12 - Ecological information:

Very toxic to aquatic organisms; may cause long-term adverse effects in the aquatic environment.

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 information:

<u>UN 1169:</u>	Applies
<u>Road (ADR/RID):</u>	Class 3 Packing Group III
<u>Air (IATA):</u>	Class 3 Packing Group III
<u>Sea (IMDG):</u>	Class 3 Packing Group III
<u>CHIP:</u>	See section 15

## 15 - Regulatory information:

<u>Hazards:</u>	Harmful, Dangerous to the environment
<u>Symbols:</u>	Xn, N

**Risk Phrases:** R10 Flammable  
R38 Irritating to skin  
R43 May cause sensitisation by skin contact  
R50/53 Very toxic to aquatic organisms; may cause long-term adverse effects in the aquatic environment.  
R65 Harmful: may cause lung damage if swallowed

**Safety Phrases:** S24 Avoid contact with skin  
S37 Wear suitable gloves  
S61 Avoid release to the environment. Refer to special instructions / safety data sheets  
S62 If swallowed, do not induce vomiting; seek medical advice immediately

**16 - Other information:**

Cosmetics Directive 7<sup>th</sup> Amendment: Restrictions may apply. A source of Limonene and Linalool, listed as sensitisers. Check maximum usage levels for skin care products.

IFRA recommend that for applications on areas of skin exposed to sunshine, excluding bath preparations, soaps and other products which are washed off the skin, the total level of bergapten (5-methoxypsoralen) in the consumer products should not exceed 0.0015% (15 ppm). This is equivalent to 0.0075% (75 ppm) in a fragrance compound used at 20% in the consumer product. The typical level of bergapten in Mandarin Oil, Cold Pressed is 250 ppm.

**PACKAGING:**

**Type Suitability**

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

**SHELF LIFE**

When stored within advised conditions, re-test after 12 months then at 3 monthly intervals up to a maximum life of 36 months.

**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

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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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