

EU ALLERGEN DECLARATION CERTIFICATE

In accordance with Regulation (EC) No. 1223/2009 (as amended) – Annex III (EU Cosmetic Regulation)

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PRODUCT INFORMATION

Item	Details
Product Name	Green Mandarin Essential Oil
Alternative Names	Green Mandarin Oil; Unripe Mandarin Peel Oil
Botanical Name	<i>Citrus reticulata</i> Blanco
INCI Name	Citrus Reticulata Peel Oil
Primary CAS Number	8008-31-9
EC Number	284-521-0
FEMA Number	2657
Plant Part	Peel of immature green mandarin fruit
Extraction Method	Cold expression / mechanical pressing
Material Type	Natural Complex Substance
Issue Date	17 July 2026

REGULATORY BASIS

This declaration has been prepared with reference to:

- Regulation (EC) No. 1223/2009 on cosmetic products.
- Commission Regulation (EU) 2023/1545 concerning fragrance-allergen labelling.
- The applicable November 2025 corrigendum to Regulation (EU) 2023/1545.

DECLARATION



Green Mandarin Essential Oil is a naturally derived cold-expressed citrus peel oil.

No isolated EU fragrance allergen is intentionally added.

Regulated fragrance allergens and declarable fragrance substances may nevertheless occur naturally as constituents of the essential oil.

The exact profile varies according to:

- Mandarin cultivar.
- Degree of fruit maturity.
- Country and region of cultivation.
- Harvest season.
- Peel quality.
- Expression and separation method.
- Storage.
- Oxidation.
- Production batch.

REPRESENTATIVE EU ALLERGEN PROFILE

Regulated Fragrance Substance	CAS Number	Representative Status
Limonene	138-86-3 / 5989-27-5	Naturally present; normally principal allergen
Alpha-Pinene	80-56-8	Naturally present
Beta-Pinene	127-91-3	Naturally present
Linalool	78-70-6	Naturally present at low or trace level
Citral	5392-40-5	Trace or batch dependent
Terpinolene	586-62-9	Naturally present at low level
Terpineol	8000-41-7	Trace or batch dependent
Beta-Caryophyllene	87-44-5	Trace or batch dependent
Geraniol	106-24-1	Trace or not detected
Citronellol	106-22-9	Trace or not detected
Farnesol	4602-84-0	Trace or not detected
Benzyl Alcohol	100-51-6	Trace or not detected
Benzyl Benzoate	120-51-4	Not expected or trace
Benzyl Salicylate	118-58-1	Not expected
Eugenol	97-53-0	Not expected or trace
Isoeugenol	97-54-1	Not expected
Coumarin	91-64-5	Not expected or trace

Methyl Salicylate	119-36-8	Not expected or trace
Cinnamal	104-55-2	Not expected
Cinnamyl Alcohol	104-54-1	Not expected
Hexyl Cinnamal	101-86-0	Not intentionally added
Hydroxycitronellal	107-75-5	Not intentionally added
Alpha-Isomethyl Ionone	127-51-5	Not intentionally added

REPRESENTATIVE QUANTITATIVE PROFILE

The following values are representative only and do not constitute batch results.

Declarable Substance	Representative Concentration in Raw Material
Limonene	60.0–85.0%
Alpha-Pinene	1.0–4.0%
Beta-Pinene	1.0–4.0%
Linalool	Trace–1.0%
Citral	Trace–0.5%
Terpinolene	Trace–2.0%
Other regulated allergens Batch dependent or below analytical reporting level	

IMPORTANT QUALIFICATION

This declaration does not state that the product contains none of the regulated fragrance allergens.

A constituent may only be declared “not detected” where:

- A suitable batch-specific analytical method has been used.
- The detection or quantification limit is stated.
- The constituent is below that stated limit.
- The analytical scope covers the applicable regulatory allergen list.

Batch-specific GC–MS or supplier allergen information must take precedence.

FINISHED-PRODUCT DECLARATION THRESHOLDS

Regulated fragrance allergens must be individually declared in the ingredient list of a finished cosmetic product when their concentration exceeds:

Finished Product Type	Declaration Threshold
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Leave-on cosmetic products 0.001%

Rinse-off cosmetic products 0.01%

ILLUSTRATIVE LIMONENE CALCULATION

Where a Green Mandarin Essential Oil batch contains 72.0% limonene and the oil is used at 0.50% in a finished product:

$72.0\% \times 0.50\% = 0.36\%$ limonene in the finished product

Limonene would exceed both:

- The leave-on declaration threshold of 0.001%.
- The rinse-off declaration threshold of 0.01%.

The actual batch concentration and real formulation use level must always be used.

ILLUSTRATIVE PINENE CALCULATION

Where total declarable pinene is 4.0% and the essential oil is used at 0.50%:

$4.0\% \times 0.50\% = 0.02\%$ pinene in the finished product

The calculated concentration would exceed both applicable declaration thresholds.

This example is illustrative and is not a certified batch result.

PHOTOTOXICITY AND FUROCOUMARIN STATEMENT

Green Mandarin Essential Oil is not generally expected to contain relevant quantities of phototoxic furocoumarins.

This does not eliminate the requirement to assess:

- Other naturally occurring allergens.
 - Oxidation products.
 - Authenticity and adulteration.
 - Contributions from other citrus ingredients.
 - Finished-product exposure.
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OXIDATION STATEMENT

Limonene, linalool, pinene and related unsaturated terpenes may oxidise following exposure to oxygen, heat or light.

Oxidised terpene products may exhibit increased skin-sensitising potential.

The oil should therefore be:

- Stored tightly closed.
- Protected from heat and direct sunlight.
- Kept with minimal headspace.
- Monitored for peroxide development.
- Reassessed after prolonged or unsuitable storage.

CONCLUSION

LIMONENE IS EXPECTED TO BE THE PRINCIPAL DECLARABLE FRAGRANCE ALLERGEN

Alpha-pinene, beta-pinene, linalool, citral, terpinolene and other regulated substances may also require declaration depending on:

- Actual batch composition.
- Essential-oil use level.
- Finished-product type.
- Contributions from other formulation ingredients.
- Applicable EU transition provisions.
- Oxidation and storage condition.

No isolated EU fragrance allergen is intentionally added.

The finished-product manufacturer remains responsible for calculating every regulated allergen and declaring those exceeding the applicable threshold.

Authorised by:

Fozia Khot
Director