



## EU ALLERGEN DECLARATION CERTIFICATE

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

**Aromology Trading LLC**  
G05 Al Ghazal Building  
Nadd Al Hamar  
Dubai, United Arab Emirates

Website: [www.aromology.com](http://www.aromology.com)  
Email: [info@aromology.com](mailto:info@aromology.com)

### Co-distilled Grapefruit & Cedarwood Oil

#### Product Identification

| Parameter          | Details                                 |
|--------------------|-----------------------------------------|
| Product Name       | Co-distilled Grapefruit & Cedarwood Oil |
| Product Type       | Natural co-distilled essential oil      |
| Botanical Source 1 | <i>Citrus × paradisi</i>                |
| Botanical Source 2 | Cedarwood species to be confirmed       |
| Chemical Identity  | Natural complex substance               |
| CAS Number         | Not assigned to complete co-distillate  |
| Grade              | Professional perfumery grade            |

#### Finished-Product Declaration Thresholds

An individually regulated fragrance allergen must be declared in the finished cosmetic ingredient list when its total concentration exceeds:

| Cosmetic Product Type | Declaration Threshold |
|-----------------------|-----------------------|
| Leave-on product      | 0.001% / 10 mg/kg     |
| Rinse-off product     | 0.010% / 100 mg/kg    |

All contributions from every ingredient in the finished product must be combined.

#### Representative Traditional EU Fragrance Allergens

| Fragrance Allergen | CAS No.   | Representative Content | Status                   |
|--------------------|-----------|------------------------|--------------------------|
| Limonene           | 5989-27-5 | 48.00%                 | Naturally present        |
| Linalool           | 78-70-6   | 0.65%                  | Naturally present        |
| Citral             | 5392-40-5 | 0.18%                  | Naturally present        |
| Geraniol           | 106-24-1  | 0.06%                  | May be naturally present |
| Citronellol        | 106-22-9  | 0.03%                  | May be naturally present |

|                            |            |                         |                             |
|----------------------------|------------|-------------------------|-----------------------------|
| Farnesol                   | 4602-84-0  | 0.02%                   | May be naturally present    |
| Benzyl Alcohol             | 100-51-6   | Below 0.01%             | Trace/batch dependent       |
| Benzyl Benzoate            | 120-51-4   | Below 0.01%             | Trace/batch dependent       |
| Eugenol                    | 97-53-0    | Not detected/trace      | Batch confirmation required |
| Isoeugenol                 | 97-54-1    | Not detected/trace      | Batch confirmation required |
| Coumarin                   | 91-64-5    | Not detected/trace      | Batch confirmation required |
| Benzyl Salicylate          | 118-58-1   | Not detected/trace      | Batch confirmation required |
| Anise Alcohol              | 105-13-5   | Not detected/trace      | Batch confirmation required |
| Cinnamal                   | 104-55-2   | Not intentionally added | Not expected                |
| Cinnamyl Alcohol           | 104-54-1   | Not intentionally added | Not expected                |
| Hexyl Cinnamal             | 101-86-0   | Not intentionally added | Not expected                |
| Amyl Cinnamal              | 122-40-7   | Not intentionally added | Not expected                |
| Alpha-Isomethyl Ionone     | 127-51-5   | Not intentionally added | Not expected                |
| Methyl 2-Octynoate         | 111-12-6   | Not intentionally added | Not expected                |
| Evernia Prunastri Extract  | 90028-68-5 | Not intentionally added | Not expected                |
| Evernia Furfuracea Extract | 90028-67-4 | Not intentionally added | Not expected                |

“Not intentionally added” does not mean analytically absent.

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### Expanded EU Allergen Considerations

Potentially relevant expanded allergens or grouped constituents include:

| Substance or Group       | CAS No.           | Representative Status              |
|--------------------------|-------------------|------------------------------------|
| Alpha-Pinene             | 80-56-8           | Naturally present                  |
| Beta-Pinene              | 127-91-3          | Naturally present                  |
| Beta-Caryophyllene       | 87-44-5           | May be naturally present           |
| Geranyl Acetate          | 105-87-3          | May be naturally present           |
| Linalyl Acetate          | 115-95-7          | May be naturally present           |
| Terpineol                | 8000-41-7         | May be naturally present           |
| Methyl Salicylate        | 119-36-8          | Not expected or trace              |
| Benzaldehyde             | 100-52-7          | May be present at trace level      |
| Menthol                  | 1490-04-6         | Not expected                       |
| Camphor                  | 76-22-2           | Species-dependent trace            |
| Eucalyptol               | 470-82-6          | Species-dependent trace            |
| Vanillin                 | 121-33-5          | Not expected                       |
| Citrus Paradisi Peel Oil | Botanical mixture | Present                            |
| Cedarwood Oil/Extract    | Botanical mixture | Present; species must be confirmed |

The exact legally required ingredient name and grouping must be checked against the applicable consolidated Annex III entry.

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### Representative Quantitative Declaration

| Allergen                   | Representative Concentration in Raw Material |
|----------------------------|----------------------------------------------|
| Limonene                   | 48.00%                                       |
| Linalool                   | 0.65%                                        |
| Citral                     | 0.18%                                        |
| Geraniol                   | 0.06%                                        |
| Citronellol                | 0.03%                                        |
| Farnesol                   | 0.02%                                        |
| Benzyl Alcohol             | <0.01%                                       |
| Benzyl Benzoate            | <0.01%                                       |
| Other Declarable Allergens | Batch-specific analysis required             |

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### Cumulative Allergen Contributions

For each allergen, combine contributions from:

- Co-distilled Grapefruit & Cedarwood Oil
- Other citrus oils
- Essential oils
- Absolutes
- Natural extracts
- Fragrance compounds
- Aroma chemicals
- Preservatives
- Functional ingredients

The total concentration in the complete cosmetic determines whether individual declaration is required.

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### Oxidation Considerations

Limonene, linalool, alpha-pinene and beta-pinene may oxidise during storage.

Oxidation may:

- Increase sensitisation potential
- Form hydroperoxides
- Change the allergen profile
- Increase peroxide values

- Alter the odour
- Reduce raw-material quality

Recommended controls include:

- Tight closure
- Protection from heat and light
- Reduced headspace
- Monitoring of peroxide value
- Rejection of significantly oxidised material

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### Declaration Summary

| Requirement                                      | Status                                            |
|--------------------------------------------------|---------------------------------------------------|
| Contains Naturally Occurring Fragrance Allergens | Yes                                               |
| Principal Allergen                               | Limonene                                          |
| Quantitative Batch Allergen Report               | Required                                          |
| Expanded EU Allergen Review                      | Required                                          |
| Cedarwood Species Confirmation                   | Required                                          |
| Finished-Product Calculation                     | Mandatory                                         |
| Cumulative Calculation                           | Mandatory                                         |
| Furocoumarin Assessment                          | Required for relevant applications                |
| "Allergen-Free" Claim                            | Not supported                                     |
| Final Ingredient-List Decision                   | Responsibility of manufacturer/Responsible Person |

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### Representative Declaration

Based on the representative profile, the principal potentially declarable allergens are:

- Limonene
- Linalool
- Citral
- Geraniol
- Citronellol
- Farnesol
- Benzyl Alcohol
- Benzyl Benzoate

Additional expanded allergens may require declaration depending on the batch GC-MS profile, cedarwood species and concentration in the finished cosmetic.

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## Disclaimer

This EU Fragrance Allergen Declaration is a representative professional template and is not evidence of quantitative testing of a specific batch.

Before formal issue, verify or replace all values using:

- Original manufacturer's allergen declaration
- Batch-specific GC-MS analysis
- Exact grapefruit processing method
- Exact cedarwood botanical species
- Furocoumarin and bergapten data
- Current consolidated EU Cosmetics Regulation
- Applicable Annex III entries
- Finished-product formulation
- Finished-product dosage
- Cumulative allergen calculations

The cosmetic manufacturer or EU Responsible Person remains responsible for final ingredient-list labelling, Cosmetic Product Safety Report preparation and regulatory compliance.

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### Authorised By:

Fozia Khot  
Director