



## EU ALLERGEN DECLARATION CERTIFICATE

Prepared with reference to Regulation (EC) No. 1223/2009 on cosmetic products, Annex III, as amended

**Product Name:** Clove Leaf Oil

**Supplier Product Name:** Clove Leaf Oil Rectified 85%

**Product Code:** CL-185

**Botanical Name:** Syzygium aromaticum

**INCI Name:** Syzygium aromaticum Extract

**CAS Numbers:** 84961-50-2; 8000-34-8

**EC/EINECS Numbers:** 904-912-8; 284-638-7

**Country of Origin:** Indonesia

**Plant Part:** Leaves

**Extraction Method:** Steam distillation followed by fractional rectification

**Product Type:** Rectified natural essential oil

### QUANTITATIVE EU FRAGRANCE ALLERGEN INFORMATION

| EU Fragrance Allergen  | CAS Number         | Concentration/Status                   |
|------------------------|--------------------|----------------------------------------|
| Eugenol                | 97-53-0            | 80.00–88.00%                           |
| Isoeugenol             | 97-54-1            | Possible natural trace; not quantified |
| Linalool               | 78-70-6            | Possible natural trace; not quantified |
| Limonene               | 5989-27-5/138-86-3 | Possible natural trace; not quantified |
| Citral                 | 5392-40-5          | Possible natural trace; not quantified |
| Geraniol               | 106-24-1           | Possible natural trace; not quantified |
| Citronellol            | 106-22-9           | Possible natural trace; not quantified |
| Cinnamal               | 104-55-2           | Possible natural trace; not quantified |
| Coumarin               | 91-64-5            | Possible natural trace; not quantified |
| Benzyl Alcohol         | 100-51-6           | Possible natural trace; not quantified |
| Benzyl Benzoate        | 120-51-4           | Possible natural trace; not quantified |
| Benzyl Salicylate      | 118-58-1           | Possible natural trace; not quantified |
| Farnesol               | 4602-84-0          | Possible natural trace; not quantified |
| Cinnamyl Alcohol       | 104-54-1           | Not typically present                  |
| Hydroxycitronellal     | 107-75-5           | Not expected                           |
| Alpha-Isomethyl Ionone | 127-51-5           | Not expected                           |
| Amyl Cinnamal          | 122-40-7           | Not expected                           |
| Amylcinnamyl Alcohol   | 101-85-9           | Not expected                           |
| Anise Alcohol          | 105-13-5           | Not expected                           |
| Hexyl Cinnamal         | 101-86-0           | Not expected                           |
| Methyl 2-Octynoate     | 111-12-6           | Not expected                           |



| EU Fragrance Allergen      | CAS Number | Concentration/Status |
|----------------------------|------------|----------------------|
| Evernia Prunastri Extract  | 90028-68-5 | Not expected         |
| Evernia Furfuracea Extract | 90028-67-4 | Not expected         |

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#### OTHER REGULATED CONSTITUENTS

| Constituent     | CAS Number | Concentration |
|-----------------|------------|---------------|
| Methyl Eugenol  | 93-15-2    | Maximum 0.01% |
| Eugenyl Acetate | 93-28-7    | 0.00–0.90%    |
| β-Caryophyllene | 87-44-5    | 7.80–11.10%   |
| α-Humulene      | 6753-98-6  | 1.15–2.23%    |

Methyl eugenol is subject to separate regulatory restrictions and must be considered in the finished-product safety assessment even though it is not treated in the same manner as the traditional fragrance allergens for ingredient-list labelling.

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#### EU COSMETIC LABELLING THRESHOLDS

Fragrance allergens must be declared in the finished cosmetic product when the concentration of the individual allergen exceeds:

| Finished Cosmetic Product | Labelling Threshold |
|---------------------------|---------------------|
| Leave-on products         | 0.001%              |
| Rinse-off products        | 0.01%               |

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#### EUGENOL LABELLING CALCULATION

Because the product contains between 80% and 88% eugenol, eugenol will normally require declaration in finished cosmetic products whenever the material is used above approximately:

| Finished Product Type | Approximate Material Concentration Triggering Eugenol Declaration |
|-----------------------|-------------------------------------------------------------------|
| Leave-on product      | 0.00114%                                                          |
| Rinse-off product     | 0.0114%                                                           |

These figures use the maximum eugenol concentration of 88%.

#### REGULATORY STATEMENT

- Eugenol is naturally present as the principal constituent.



- No fragrance allergens have been intentionally added.
- The other listed allergens may occur naturally at trace concentrations.
- Exact trace-allergen concentrations require batch-specific GC-MS analysis.
- The product must not be described as allergen-free.
- Rectification may reduce some volatile constituents but does not remove the requirement for appropriate allergen assessment.
- Finished-product labelling must account for allergens contributed by every ingredient in the formulation.
- Compliance must be assessed according to Regulation (EC) No. 1223/2009 and Regulation (EU) 2023/1545, including applicable transition periods.

## DECLARATION

We confirm that Clove Leaf Oil (Rectified) contains eugenol at 80.00–88.00% and may contain other naturally occurring fragrance allergens at trace concentrations.

The manufacturer of the finished cosmetic product is responsible for calculating the final allergen concentrations, preparing the ingredient declaration and ensuring regulatory compliance.

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