EU ALLERGEN DECLARATION CERTIFICATE

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

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Citronellyl Formate

Product Identification

Item	Details
Product	Citronellyl Formate
Manufacturer	Synarome
CAS Number	105-85-1
EC Number	203-338-9
FEMA Number	2314
Molecular Formula	$C_{11}H_{20}O_2$
Molecular Weight	184.27 g/mol
Chemical Family	Formate Ester

EU Allergen Status of Citronellyl Formate

Citronellyl Formate itself:

CAS 105-85-1

is not identified as an individually declarable EU fragrance allergen under the applicable Annex III fragrance-allergen labelling provisions.

However, this does not mean that the commercial raw material is necessarily allergen-free.

The important secondary constituent is:

CITRONELLOL – CAS 106-22-9

Citronellol is an individually declarable EU fragrance allergen.

Citronellol Content

Recognised specifications for commercial Citronellyl Formate describe material containing:

Citronellyl Formate: ≥90%
Citronellol: approximately 5–10%

Therefore, Citronellol should be treated as:

POTENTIALLY PRESENT / DECLARABLE
unless the current Synarome quantitative allergen declaration provides a different value.

Important

The 5–10% range must not automatically be entered as the exact Synarome allergen percentage.I
t is a recognised general specification range for Citronellyl Formate.
The actual Synarome allergen declaration or batch GC should take precedence.

Representative EU Allergen Assessment

EU Fragrance Allergen	Expected Status
Alpha-Isomethyl Ionone	Not expected
Amyl Cinnamal	Not expected
Amyl Salicylate	Not expected
Anethole	Not expected
Anise Alcohol	Not expected
Benzaldehyde	Not expected
Benzyl Alcohol	Not expected
Benzyl Benzoate	Not expected
Benzyl Cinnamate	Not expected
Benzyl Salicylate	Not expected
Camphor	Not expected
Cinnamal	Not expected
Cinnamyl Alcohol	Not expected
Citral	Not expected
Citronellol	Potentially present – quantitative Synarome value required
Coumarin	Not expected
Eugenol	Not expected
Farnesol	Not expected

Geraniol	Possible trace – manufacturer confirmation required
Hexyl Cinnamal	Not expected
Hydroxycitronellal	Not expected
Isoeugenol	Not expected
Limonene	Possible trace – manufacturer confirmation required
Linalool	Not expected
Menthol	Not expected
Methyl Salicylate	Not expected
Methyl 2-Octynoate	Not expected
Evernia prunastri Extract	Not expected
Evernia furfuracea Extract	Not expected

“Not expected” does not constitute analytical confirmation of 0.0000%.

Expanded EU Fragrance Allergens

Regulation (EU) 2023/1545 expanded the substances subject to individual fragrance-allergen labelling.

The current Synarome quantitative declaration should therefore be checked for all applicable substances, including any trace:

- Citronellol
- Geraniol
- Limonene
- Pinene
- Terpineol
- Geranyl Acetate
- Linalyl Acetate
- Beta-Caryophyllene
- Other applicable Annex III fragrance allergens

Finished Cosmetic Declaration Thresholds

An applicable fragrance allergen must be individually declared where its concentration exceeds:

Product Type	Threshold in Finished Cosmetic
Leave-on product	0.001%
Rinse-off product	0.01%

Citronellol Calculation

For confirmed Citronellol:

Citronellol in finished product

Citronellol % in Citronellyl Formate

Citronellyl Formate % in fragrance

Fragrance % in finished product

Example

Assume for illustration:

- Citronellol = 5% in Citronellyl Formate
- Citronellyl Formate = 2% in fragrance concentrate
- Fragrance concentrate = 20% in finished perfume

Then:

5% × 2% × 20% = 0.020%

The finished perfume would contain:

0.020% CITRONELLOL

This exceeds the 0.001% leave-on labelling threshold, so Citronellol would require declaration.

This is an example only. It does not establish the actual Synarome Citronellol content.

Raw Material Declaration

Parameter	Declaration
Product	Citronellyl Formate
Manufacturer	Synarome
CAS	105-85-1
Synthetic Aroma Chemical	Yes
Citronellyl Formate itself an EU fragrance allergen	No identified listing
Citronellol	Potentially present
Exact Citronellol %	Current Synarome declaration / GC required
Blanket EU Allergen-Free Claim	No
EU 2023/1545 Assessment	Required

Declaration

Based on available chemical and regulatory information:

AROMOLOGY

- Citronellyl Formate is 3,7-dimethyloct-6-enyl formate.
- CAS Number: 105-85-1.
- Molecular Formula: $C_{11}H_{20}O_2$.
- Molecular Weight: 184.27 g/mol.
- Citronellyl Formate itself is not identified as an individually declarable EU fragrance allergen.
- Commercial Citronellyl Formate can contain Citronellol, which is an EU declarable fragrance allergen.
- A recognised specification indicates approximately 5–10% Citronellol, but this should not be represented as the exact Synarome value without manufacturer confirmation.
- The current Synarome quantitative allergen declaration or batch GC should take precedence.
- No blanket allergen-free statement is made.
- Finished cosmetic allergen labelling must be calculated cumulatively from the complete fragrance formulation.

This declaration applies specifically to Citronellyl Formate – Synarome and does not independently certify a finished cosmetic product.

Authorised by:
Fozia Khot
Director