

IFRA & EU FRAGRANCE ALLERGEN REPORT

Product: Frankincense Essential Oil Organic

INCI: Boswellia serrata

Country of Origin: India

Product Type: Organic Essential Oil

GC-MS Total Reported: 99.59%

Basis of Declaration: Supplied GC-MS constituent analysis

Under EU Regulation 2023/1545, fragrance allergens subject to individual labelling are declared above 0.001% in leave-on products and 0.01% in rinse-off products. The expanded rules include Pinene, Alpha-Terpinene, Terpinolene and Terpeneol, in addition to established allergens such as Limonene and Linalool.

EU Expanded Fragrance Allergen Composition

Fragrance Allergen / Declarable Name	GC-MS Result in Oil	At 0.20% Oil in Finished Product	>0.001% Leave-On?
Pinene – α-Pinene + reported β-Pinene peak	10.63%*	0.02126%*	YES
Limonene	2.18%*	0.00436%*	YES
Alpha-Terpinene	0.45%	0.00090%	No
Terpinolene	0.28%*	0.00056%*	No
Linalool	0.06%	0.00012%	No
Terpeneol (α-Terpeneol)	0.02%	0.00004%	No

The supplied GC-MS identifies several co-eluting peaks. In particular, β -Pinene/Sabinene is reported at the same RT and Limonene/ β -Phellandrene/1,8-Cineole at the same RT. These figures should therefore be understood according to the analytical reporting convention of the supplied GC-MS rather than as independently resolved quantitative results.

Leave-On Cosmetic at 0.20% Frankincense Oil

At the customer's stated use level of 0.20%, the supplied GC-MS indicates that the expanded EU fragrance-allergen names that exceed the 0.001% finished-product threshold are:

PINENE — approximately 0.02126%*

LIMONENE — approximately 0.00436%*

Alpha-Terpinene, Terpinolene, Linalool and Terpeneol remain below 0.001% at this use level based on the reported GC-MS concentrations.

EU Regulation 2023/1545 specifically groups α -Pinene and β -Pinene under the declarable name "Pinene" and establishes the 0.001% leave-on / 0.01% rinse-off thresholds.

IFRA INFORMATION

Organic Frankincense Essential Oil (*Boswellia serrata*) is a Natural Complex Substance (NCS). The GC-MS also reports constituents relevant to IFRA assessment, including:

Methylchavicol (Estragole): 0.54%

Methyleugenol: 0.01%

Both Estragole and Methyl Eugenol are covered by restriction Standards in the IFRA 51st Amendment. Accordingly, the maximum permitted amount of this essential oil in a finished product cannot be represented by one universal IFRA percentage without specifying the applicable IFRA product category and assessing the contribution of restricted constituents. IFRA's current public documentation identifies the 51st Amendment as the applicable complete Standards set.

Declaration

Based on the supplied GC-MS analysis, this Organic Frankincense Essential Oil – *Boswellia serrata* contains naturally occurring fragrance allergens subject to EU Annex III fragrance-allergen disclosure requirements. At a 0.20% use level in a leave-on cosmetic, the GC-MS data indicates that Pinene and Limonene exceed the 0.001% finished-product declaration threshold.

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