

IFRA 51ST AMENDMENT CONFORMITY STATEMENT

Nutmeg Absolute

PRODUCT IDENTIFICATION

Parameter	Details
Product Name	Nutmeg Absolute
Botanical Name	<i>Myristica fragrans</i> Houtt.
INCI Name	Myristica Fragrans Kernel Extract
Plant Part	Dried Kernels / Seeds
Extraction Method	Solvent Extraction
Material Type	Natural Complex Substance
IFRA Amendment	51st Amendment

IFRA DECLARATION

Nutmeg Absolute is a natural complex botanical extract.

No single universal IFRA maximum-use level can be assigned to Nutmeg Absolute without:

- A batch-specific quantitative compositional analysis
- Confirmation of its naturally occurring restricted constituents
- Identification of the intended IFRA finished-product category
- Calculation of contributions from all ingredients in the fragrance formula

The IFRA Standards Library is the authoritative source for Standards applicable under the 51st Amendment.

MATERIAL-SPECIFIC STATUS

No dedicated category table establishing one set of maximum-use levels for Nutmeg Absolute as a complete extract has been identified under the IFRA 51st Amendment.

The material must instead be evaluated as a **Natural Complex Substance**, taking into account all restricted constituents occurring in the actual batch.

IFRA Category	Raw-Material Status
Category 1	Composition-dependent assessment required
Category 2	Composition-dependent assessment required
Category 3	Composition-dependent assessment required
Category 4	Composition-dependent assessment required
Category 5A	Composition-dependent assessment required
Category 5B	Composition-dependent assessment required
Category 5C	Composition-dependent assessment required
Category 5D	Composition-dependent assessment required

Category 6	Composition-dependent assessment required
Category 7A	Composition-dependent assessment required
Category 7B	Composition-dependent assessment required
Category 8	Composition-dependent assessment required
Category 9	Composition-dependent assessment required
Category 10A	Composition-dependent assessment required
Category 10B	Composition-dependent assessment required
Category 11A	Composition-dependent assessment required
Category 11B	Composition-dependent assessment required
Category 12	Composition-dependent assessment required

Composition-dependent assessment required does not mean the material is unrestricted or permitted at 100%.

NATURALLY OCCURRING CONSTITUENTS REQUIRING ASSESSMENT

Nutmeg Absolute may contain the following constituents, depending on origin, extraction method and batch:

Potential Constituent	IFRA Compliance Consideration
Safrole	Restricted constituent; determine actual quantitative content
Methyl Eugenol	Restricted constituent; include total contribution from all sources
Estragole	Restricted constituent; include total contribution where present
Eugenol	Apply the relevant IFRA Standard and total formula contribution
Isoeugenol	Apply the relevant IFRA Standard where detected
Methyleugenol-related phenylpropenes	Evaluate according to the applicable Standard
Limonene	Consider oxidation quality and total contribution
Linalool	Consider oxidation quality and total contribution
Citral	Include total contribution where present
Coumarin	Include total contribution where detected

This table identifies substances that may require assessment. It does not confirm their presence or concentration in every batch.

IMPORTANT RESTRICTION PRINCIPLE

Where a restricted constituent occurs naturally in Nutmeg Absolute:

Constituent contribution in fragrance concentrate (%) =

Constituent content in Nutmeg Absolute (%) × Nutmeg Absolute dosage (%) ÷ 100

The calculated contribution must be added to the amount of the same constituent contributed by all other fragrance ingredients.

The lowest applicable maximum level must then be observed for the intended IFRA category.

EXAMPLE CALCULATION

Where a batch contains:

- Safrole: 0.50%
- Nutmeg Absolute dosage in fragrance concentrate: 2.00%

The safrole contribution would be:

$0.50 \times 2.00 \div 100 = 0.010\%$ safrole in the fragrance concentrate

This result must then be assessed against the applicable IFRA Standard and the final consumer-product category.

The example is illustrative only and is not a recommended use level.

PHOTOTOXICITY STATUS

Nutmeg Absolute is not an expressed citrus peel oil and is not normally classified as a phototoxic citrus material.

The complete finished fragrance must nevertheless be assessed for phototoxic constituents contributed by other raw materials.

CONDITIONS OF CONFORMITY

Use of Nutmeg Absolute under the IFRA 51st Amendment is conditional upon:

1. Obtaining a batch-specific GC/MS or quantitative compositional report.
2. Determining the actual content of safrole, methyl eugenol, estragole, eugenol and other restricted constituents.
3. Assigning the correct IFRA category to the finished consumer product.
4. Calculating the contribution of each restricted constituent from all fragrance raw materials.
5. Applying the most restrictive applicable IFRA Standard.
6. Confirming compliance of the complete fragrance concentrate.
7. Completing a finished-product safety assessment.
8. Observing all applicable regional and national regulations.

CERTIFICATION

Aromology Trading LLC confirms that Nutmeg Absolute may be used as a fragrance raw material under the IFRA 51st Amendment only when the actual batch composition and complete fragrance formulation have been evaluated against all applicable IFRA Standards.

This statement does not:

- Establish unrestricted use
- Provide a category-specific maximum percentage
- Replace a batch-specific analytical report
- Replace a formula-specific IFRA Certificate
- Replace a Cosmetic Product Safety Report or finished-product safety assessment

Where no quantitative restricted-constituent analysis is available, a definitive numerical IFRA maximum-use level cannot be responsibly certified.
