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IFRA COMPLIANCE STATEMENT

IFRA Standards – 51st Amendment

Supplier

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PRODUCT IDENTIFICATION

Parameter	Details
Product Name	Orange Leaf Absolute
Alternative Name	Petitgrain Absolute
Botanical Name	<i>Citrus aurantium</i> L. var. <i>amara</i>
Plant Part	Leaves and young twigs
INCI Name	Citrus Aurantium Amara Leaf Extract
CAS Number	8014-17-3
Country of Origin	Tunisia
Extraction Method	Solvent extraction
Material Type	Natural Complex Substance
IFRA Amendment	51 st Amendment
Document Type	Raw-Material IFRA Status Statement

IFRA STATUS

Orange Leaf Absolute is a Natural Complex Substance with a composition that may vary significantly according to:

- Geographic origin
- Botanical variety
- Plant part
- Harvest period
- Extraction process
- Commercial quality
- Production batch

IFRA recognises that natural complex materials may have different constituent profiles depending on these factors.



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No dedicated IFRA 51st Amendment Standard assigning one universal maximum-use percentage specifically to Orange Leaf Absolute, CAS 8014-17-3, has been identified for this statement.

The material must therefore be assessed according to:

1. Its actual batch composition.
2. IFRA-restricted constituents naturally present.
3. Its dosage in the fragrance mixture.
4. The fragrance dosage in the finished product.
5. The applicable IFRA product category.
6. Contributions of the same restricted substances from all other materials.

The IFRA 51st Amendment documentation includes an annex addressing restricted-substance contributions from natural sources.

DEDICATED STANDARD ASSESSMENT

Assessment	Status
Dedicated Orange Leaf Absolute Standard identified	No
Material prohibited by name	No dedicated prohibition identified
Universal category maximum assigned	No
Natural Complex Substance assessment required	Yes
Constituent-based calculation required	Yes
Batch-specific GC/MS recommended	Yes
Finished-product category assessment required	Yes
Automatically unrestricted	No

The absence of a dedicated raw-material Standard does not establish unrestricted use.

REPRESENTATIVE CONSTITUENTS FOR IFRA REVIEW

Constituent	CAS Number	Representative Status
Linalool	78-70-6	Typically present
Limonene	138-86-3 / 5989-27-5	Typically present
Geraniol	106-24-1	May be present
Citral	5392-40-5	May be present
Citronellol	106-22-9	May be present
Farnesol	4602-84-0	May be present
Eugenol	97-53-0	May be present at trace level
Isoeugenol	97-54-1	May be present at trace level
Linalyl Acetate	115-95-7	Characteristic constituent



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Alpha-Terpineol	98-55-5	Characteristic constituent
Geranyl Acetate	105-87-3	Naturally present
Terpinyl Acetate	80-26-2	May be present
Alpha-Pinene	80-56-8	May be present
Beta-Pinene	127-91-3	May be present

This table is qualitative and does not replace quantitative batch analysis.

PHOTOTOXICITY ASSESSMENT

Orange Leaf Absolute is obtained from the leaves and twigs rather than from expressed citrus peel.

It should not automatically be treated in the same manner as a cold-expressed citrus peel oil. However, any constituent subject to an IFRA phototoxicity or other restriction Standard must be assessed if detected in the batch.

IFRA CATEGORY TABLE

IFRA Category	Maximum Use Level
Category 1	Subject to constituent-based assessment
Category 2	Subject to constituent-based assessment
Category 3	Subject to constituent-based assessment
Category 4	Subject to constituent-based assessment
Category 5A	Subject to constituent-based assessment
Category 5B	Subject to constituent-based assessment
Category 5C	Subject to constituent-based assessment
Category 5D	Subject to constituent-based assessment
Category 6	Subject to constituent-based assessment
Category 7A	Subject to constituent-based assessment
Category 7B	Subject to constituent-based assessment
Category 8	Subject to constituent-based assessment
Category 9	Subject to constituent-based assessment
Category 10A	Subject to constituent-based assessment
Category 10B	Subject to constituent-based assessment
Category 11A	Subject to constituent-based assessment
Category 11B	Subject to constituent-based assessment
Category 12	Subject to constituent-based assessment



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IFRA Standards are designed primarily to control fragrance ingredients in fragrance mixtures used in finished consumer products rather than to provide a universal raw-material dosage.

CALCULATION METHOD

Orange Leaf Absolute in Finished Product

Orange Leaf Absolute in finished product (%) =

Absolute concentration in fragrance mixture (%) × fragrance dosage in finished product (%) ÷ 100

Restricted Constituent Contribution

Restricted constituent in finished product (%) =

Constituent concentration in absolute (%) × absolute concentration in finished product (%) ÷ 100

Illustrative Example

Where:

- Linalool is present at 30.0% in Orange Leaf Absolute; and
- Orange Leaf Absolute is used at 0.50% in the finished product:

$30.0 \times 0.50 \div 100 = 0.150\%$ Linalool

The resulting figure must be combined with Linalool contributed by all other fragrance materials.

CONDITIONS FOR CONFORMITY

Use may be considered consistent with the IFRA 51st Amendment only when:

1. Batch-specific composition is available.
2. Applicable restricted constituents are identified.
3. Contributions from all ingredients are totalled.
4. The correct finished-product category is selected.
5. The lowest applicable restriction is respected.
6. Applicable specification or purity requirements are met.
7. The complete fragrance formulation is assessed.
8. The finished product undergoes an appropriate safety assessment.



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9. Applicable national and regional legislation is satisfied.

CERTIFICATION STATUS

Assessment	Status
Raw-Material Status Statement	Issued
Dedicated IFRA Maximum	Not assigned
Quantitative Batch Composition Supplied	No
Constituent-Based Assessment	Required
Formula-Specific Certificate of Conformity	Not issued
Finished-Product Safety Assessment	Required

A formula-specific Certificate of Conformity must relate to the intended finished-product use and applicable category.

DECLARATION

Aromology Trading LLC declares that:

- Orange Leaf Absolute (Tunisia) is a Natural Complex Substance.
- No universal category maximum is assigned by this statement.
- Its permitted use depends on the concentrations of applicable restricted constituents.
- Batch-specific analytical data and full formula calculations are required.
- This document is an IFRA 51st Amendment Status Statement, not a formula-specific Certificate of Conformity.

DISCLAIMER

No original manufacturer IFRA declaration, batch GC/MS chromatogram or quantitative restricted-constituent report was supplied.

This document must not be interpreted as proof that every fragrance formulation or finished product containing the material complies with IFRA Standards.

AUTHORISED BY

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Director

Aromology Trading LLC



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