



A R O M O L O G Y

IFRA COMPLIANCE STATEMENT

IFRA Standards – 51st Amendment

Supplier

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PRODUCT INFORMATION

Item	Details
Product Name	Grapefruit Oil
Botanical Name	<i>Citrus paradisi</i> Macfad.
INCI Name	Citrus Paradisi Peel Oil
CAS Number	8016-20-4
EC Number	289-904-6
Initial Extraction Method	Expression / cold pressing
Further Processing	Concentration through partial removal of volatile fractions
Material Type	Concentrated Natural Complex Substance
IFRA Amendment Reviewed	51st Amendment
Issue Date	17 July 2026

DECLARATION

Grapefruit Oil – 5 Fold has been reviewed with reference to the IFRA Standards under the 51st Amendment.

Expressed grapefruit oil is addressed under the IFRA policy and Standards applicable to phototoxic citrus oils and naturally occurring furocoumarins.

The five-fold concentration process may change the relative concentration of restricted or sensitising constituents. Consequently, this material must not automatically be treated as analytically equivalent to standard expressed grapefruit oil.

No single universal maximum-use concentration is assigned in this statement.

BASIS OF ASSESSMENT

The permitted concentration must be determined from:



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- The actual batch composition.
- The total furocoumarin content.
- The bergapten or 5-methoxypsoralen content.
- The degree and method of concentration.
- Whether the oil has been furocoumarin reduced.
- The intended IFRA finished-product category.
- The final concentration in the consumer product.
- Contributions from all other phototoxic ingredients.
- Restricted constituents present in the fragrance formulation.
- The finished-product toxicological and exposure assessment.

CONSTITUENTS AND PARAMETERS REQUIRING REVIEW

Constituent or Parameter	Assessment Requirement
Bergapten / 5-Methoxypsoralen	Quantitative batch analysis required
Total Furocoumarins	Quantitative batch analysis required
Limonene	Sensitisation and oxidation assessment
Linalool	Sensitisation and oxidation assessment
Citral	Review against applicable IFRA requirements
Geraniol	Batch dependent
Nootkatone	Batch dependent
Residual processing solvents	Must comply with supplier and regulatory specifications
Peroxide Value	Monitor oxidation and storage condition
Other Phototoxic Citrus Oils	Combined contribution must be assessed

IFRA CATEGORY STATUS

IFRA Category	Conformity Status
Category 1	Batch-specific assessment required
Category 2	Batch-specific assessment required
Category 3	Batch-specific assessment required
Category 4	Furocoumarin and batch-specific calculation required
Category 5A–5D	Furocoumarin and batch-specific calculation required
Category 6	Separate oral-use and regulatory assessment required
Category 7A–7B	Batch-specific assessment required
Category 8	Batch-specific assessment required
Category 9	Batch-specific assessment required
Category 10A–10B	Household and inhalation exposure assessment required
Category 11A–11B	Batch-specific assessment required
Category 12	Assessment required for the intended application

PHOTOTOXICITY STATEMENT



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Expressed grapefruit peel oil may contain naturally occurring phototoxic furocoumarins.

Because this product is five-fold concentrated:

- Furocoumarin levels may differ materially from standard grapefruit oil.
- Standard expressed-oil assumptions must not be used without analytical support.
- The oil must not be described as non-phototoxic, bergapten-free or FCF unless supported by batch documentation.
- Sun-exposed finished products require particular attention.
- The combined furocoumarin contribution from all fragrance ingredients must be calculated.

CONDITIONS OF CONFORMITY

The material may be used in fragrance formulations provided that:

1. The correct IFRA category is selected.
2. A current batch GC–MS is available.
3. Total furocoumarins and bergapten are analytically determined where relevant.
4. Restricted constituents are calculated individually.
5. Contributions from all phototoxic oils are combined.
6. The fragrance concentration in the finished product is considered.
7. The final formulation remains within all applicable IFRA limits.
8. Oxidation, storage and sensitisation risks are controlled.
9. A qualified finished-product safety assessment is completed.

RESTRICTIONS ON INTERPRETATION

This statement does not mean:

- That Grapefruit Oil — 5 Fold is unrestricted.
- That it is furocoumarin-free.
- That it is non-phototoxic.
- That it may be applied directly to skin.
- That it complies automatically in every IFRA category.
- That it is suitable for oral use.
- That a finished cosmetic or consumer product has been certified.

CONCLUSION

CONFORMITY WITH THE IFRA 51ST AMENDMENT REQUIRES BATCH-SPECIFIC FUROCOUMARIN AND CONSTITUENT ASSESSMENT

The finished-product manufacturer remains responsible for the final IFRA calculation, phototoxicity review, safety assessment and regulatory compliance.



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Authorised by:
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Director