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IFRA COMPLIANCE STATEMENT

IFRA Standards – 51st Amendment

Supplier

Aromology Trading LLC
G05 Al Ghazal Building
Nadd Al Hamar
Dubai, United Arab Emirates

Website: www.aromology.com

Email: info@aromology.com

Kumquat Essential Oil

Product Identification

Item	Details
Product Name	Kumquat Essential Oil
Botanical Name	<i>Fortunella margarita</i> / <i>Citrus japonica</i>
Plant Part	Fruit peel
CAS Number	938464-05-2
Extraction Method	Cold expression or steam distillation
Product Type	Natural citrus essential oil
Material Classification	Natural Complex Substance
Principal Constituent	D-Limonene

Nature of the Material

Kumquat Essential Oil is a Natural Complex Substance whose composition can vary according to:

- Botanical variety
- Geographical origin
- Fruit maturity
- Harvest season
- Peel condition
- Extraction method
- Distillation or expression parameters
- Storage time
- Exposure to oxygen, light and heat

Published analyses show that kumquat fruit oil is normally dominated by limonene, but the exact concentration and minor-component profile vary between samples.



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IFRA 51 Status

No reliable, publicly available original manufacturer IFRA 51 certificate containing numerical maximum-use levels for Kumquat Essential Oil, CAS 938464-05-2, was identified.

A universal category limit must therefore not be assigned solely from the product name or CAS number.

IFRA conformity must be assessed using:

1. The actual batch GC-MS composition.
2. Any IFRA Standard applying directly to the natural material.
3. Any IFRA Standard applying to its naturally occurring constituents.
4. The concentration of the essential oil in the fragrance compound.
5. Contributions of the same restricted constituents from all other raw materials.
6. The intended IFRA finished-product category.
7. The fragrance concentration in the finished consumer product.

Constituents Requiring Review

Depending on the batch, regulatory review may include:

Constituent	Assessment Requirement
Limonene	Review applicable IFRA specification and oxidation-control requirements
Citral	Review if present quantitatively
Linalool	Review applicable specification and oxidation-control requirements
Geraniol	Review if present quantitatively
Citronellal	Review if present quantitatively
Other terpenes or aldehydes	Review against the current IFRA Standards Library
Furocoumarins	Confirm analytically where the product is cold-expressed and intended for leave-on skin applications

Phototoxicity Qualification

Cold-expressed citrus oils may require evaluation for naturally occurring photoreactive compounds. A definitive phototoxicity conclusion for Kumquat Essential Oil cannot be made from its botanical identity alone.

For leave-on products exposed to sunlight, the manufacturer should obtain:

- A batch-specific furocoumarin statement
- Analytical data where relevant
- The original producer's phototoxicity declaration
- Confirmation of whether the oil is cold-expressed, distilled or rectified



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Steam-distilled citrus oils typically differ from cold-expressed oils in their non-volatile furocoumarin content, so extraction method must be stated accurately.

IFRA Category Assessment

IFRA Finished-Product Category	Maximum Use Level
Category 1	Subject to batch-specific constituent assessment
Category 2	Subject to batch-specific constituent assessment
Category 3	Subject to batch-specific constituent assessment
Category 4	Subject to batch-specific constituent and phototoxicity assessment
Category 5A	Subject to batch-specific constituent and phototoxicity assessment
Category 5B	Subject to batch-specific constituent assessment
Category 5C	Subject to batch-specific constituent assessment
Category 5D	Subject to batch-specific constituent assessment
Category 6	Subject to batch-specific constituent assessment
Category 7A	Subject to batch-specific constituent assessment
Category 7B	Subject to batch-specific constituent assessment
Category 8	Subject to batch-specific constituent assessment
Category 9	Subject to batch-specific constituent assessment
Category 10A	Subject to batch-specific constituent assessment
Category 10B	Subject to batch-specific constituent assessment
Category 11A	Subject to batch-specific constituent assessment
Category 11B	Subject to batch-specific constituent assessment
Category 12	Subject to batch-specific constituent assessment

Required Calculation Procedure

Before issuing a numerical IFRA Certificate for a fragrance containing Kumquat Essential Oil, the responsible formulator must:

1. Confirm the exact botanical identity.
2. Confirm the plant part.
3. Confirm the extraction method.
4. Obtain the current batch GC-MS analysis.
5. Obtain the furocoumarin or phototoxicity statement where relevant.
6. Identify every constituent subject to an IFRA Standard.
7. Calculate the amount contributed by Kumquat Essential Oil.
8. Add contributions from every other ingredient in the fragrance formula.
9. Apply the most restrictive applicable Standard.
10. Select the correct IFRA finished-product category.
11. Calculate the concentration in the finished consumer product.
12. Complete the finished-product safety assessment.



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Declaration

Based on the available information:

- Kumquat Essential Oil may be used as a professional fragrance raw material.
- No universal maximum-use percentage is declared in this document.
- IFRA compliance is conditional upon batch-specific compositional assessment.
- Cold-expressed material should be reviewed for possible phototoxic constituents.
- Oxidation of limonene-rich material should be controlled through appropriate storage and antioxidant management where applicable.
- The finished fragrance manufacturer remains responsible for final conformity.

This declaration does not replace:

- The original producer's IFRA certificate
- The current IFRA Standards Library
- A quantitative finished-formula calculation
- A cosmetic product safety report
- A phototoxicity assessment where required

Authorised by

Fozia Khot

Director

Aromology Trading LLC