



Navy Heart Essential Oils

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IFRA COMPLIANCE DOCUMENT

Sweet Orange Essential Oil (Cold Pressed) | IFRA 51st Amendment (June 2023)

Issue Date: August 11, 2026 | Version 1.1

PRODUCT IDENTIFICATION

Product Name	Sweet Orange Essential Oil (Cold Pressed)
Botanical Name	Citrus sinensis
INCI Name	Citrus Sinensis Peel Oil Expressed
CAS Number	8008-57-9
Product Type	Essential Oil — Aromatic
Supplier	Navy Heart Essential Oils, Calgary, Alberta, Canada
IFRA Amendment	51st Amendment to the IFRA Code of Practice (published June 2023)
Document Issue Date	August 11, 2026

IFRA COMPLIANCE STATEMENT

Navy Heart Essential Oils hereby confirms that Sweet Orange Essential Oil (cold pressed) is assessed in accordance with the IFRA 51st Amendment to the IFRA Code of Practice (published June 2023). This oil is compliant for use in all product categories listed below at the maximum concentration levels stated.

Sweet orange cold pressed is one of the most versatile and permissive essential oils under IFRA standards. Unlike bergamot cold pressed, sweet orange has low levels of furocoumarins, and its primary restricted constituent (limonene) occurs at levels that still allow generous usage in leave-on skincare.

Sweet Orange Essential Oil is phototoxic and is covered by IFRA's furocoumarin-containing citrus oils standard — it is not exempt from phototoxicity consideration.

Cold-pressed sweet orange contains trace furocoumarins (primarily bergapten), and the published IFRA Certificate of Conformity explicitly flags "Phototoxicity considerations: Applicable" for nearly every product category (leave-on and rinse-off alike). What distinguishes sweet orange from bergamot, lime, or bitter orange is not an exemption from phototoxicity — it is a much lower natural bergapten concentration, which is why its category limits are far more generous. At the usage levels recommended below, finished-product bergapten stays under IFRA's 15 ppm threshold — but this is a function of dilution and low starting concentration, not an absence of phototoxic potential. Sun-exposure precautions remain appropriate for leave-on skin applications, consistent with Navy Heart's SDS for this oil.

Key restricted constituents (typical composition): Limonene 90–95% (specification standard) — Citral ≤0.5% — Citronellal ≤0.1% — Citronellol ≤0.01% — Geraniol ≤0.01%. Trace bergapten also present; phototoxicity considerations apply per IFRA Standard on Citrus Oils and Other Furocoumarin-Containing Essential Oils.

IFRA CATEGORY USAGE LIMITS — 51ST AMENDMENT

IFRA Category	Typical Product Applications	Max. Usage Level (51st Amdt.)	Navy Heart Recommended
1	Lip products (lip balm, lipstick, lip gloss, lip scrub)	22.00%	Up to 1% for lip use
2	Deodorant & antiperspirant (spray, stick, roll-on)	6.40%	Up to 2%
3	Facial makeup, eye products, foundation, blush	20.00%	Up to 1%
4	Hair leave-on (hair oil, hair serum, scalp treatment)	100.00%	Up to 3%
5A	Body leave-on: body lotion, butter, oil, cream	30.00%	Up to 2%
5B	Face leave-on: facial moisturiser, face cream, serum, toner	30.00%	Up to 1%
5C	Hand leave-on: hand cream, hand lotion, cuticle cream	30.00%	Up to 1.5%
5D	Baby leave-on: baby lotion, baby oil, baby cream, diaper cream	10.20%	Up to 0.5%
6	Intimate wipes, feminine hygiene products	70.00%	Up to 0.5%
7A	Rinse-off body: shower gel, body wash, shampoo, bath products	40.00%	Up to 3%
7B	Rinse-off hair: conditioner, hair mask, hair rinse	40.00%	Up to 2%
8	Intimate leave-on with anogenital exposure	10.20%	Up to 0.5%
9	Rinse-off: bar soap, body wash, scrubs, bath bombs	Not Limited	Up to 3%
10A	Home fragrance: reed diffusers, pot pourri, sachets	Not Limited	Up to 15%
10B	Room spray, linen spray, air freshener spray	Not Limited	Up to 5%
11A	Fabric treatment rinse-off (fabric softener, laundry detergent)	10.20%	Up to 3%
11B	Fabric treatment leave-on (dryer sheets, pillow spray)	10.20%	Up to 2%
12	Non-skin contact: candles, wax melts, incense	Not Limited	Up to 10%

Note: Maximum usage levels are sourced from an IFRA 51st Amendment Certificate of Conformity for sweet orange essential oil (Citrus sinensis).

COLOUR KEY

Green	Not Limited — no IFRA restriction applies in this category.
White	Standard limit applies — use at or below the stated maximum.
Amber	Use with extra caution — sensitive application area (lips, baby, intimate). Lower recommended levels apply.
Red	Not Approved / 0% — this oil is not permitted in this category.

ADDITIONAL FORMULATION NOTES

Soap makers (Category 9):

Sweet orange is unrestricted in soap. Up to 3% is standard. Note that sweet orange can fade relatively quickly in cold process soap (high limonene content is volatile). Blending with a fixative such as patchouli, lavender, or vanilla oleoresin significantly improves scent retention. Well-behaved in CP — no acceleration.

Leave-on products:

Very generous limits (30% in 5A) make sweet orange highly practical for leave-on products. Standard usage 0.5–2%.

Phototoxicity:

Sweet orange cold pressed IS phototoxic — it contains trace bergapten and is covered by IFRA's furocoumarin-oils standard, the same framework that governs bergamot, lime, and bitter orange. What makes sweet orange different is scale, not exemption: its natural bergapten concentration is much lower than bergamot's, so its IFRA category limits are far more generous — but sun-exposure caution is still appropriate for leave-on skin products, especially at higher usage levels or in combination with other phototoxic citrus oils in the same formula.

Skin sensitization:

Oxidized limonene is a sensitizer. Recommend using fresh oil and storing in a cool, dark place to minimize oxidation. Antioxidants (Vitamin E, rosemary extract) can be added to formulas.

Disclaimer: This IFRA compliance document is prepared in good faith based on known typical constituent data for this essential oil and the IFRA 51st Amendment (June 2023). Usage limits are based on typical composition ranges and information derived from supplier testing. It is the responsibility of the formulator to verify compliance for their specific formulation. Navy Heart Essential Oils makes no warranty as to the accuracy or completeness of this information. Always perform your own safety assessment before use in consumer products.

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