



Navy Heart Essential Oils

Calgary, Alberta, Canada | Tel: +1 (403) 901-6428 | navyheart.ca@gmail.com | navyheart.ca

IFRA COMPLIANCE DOCUMENT

Lemongrass Essential Oil | IFRA 51st Amendment (June 2023)

Issue Date: May 24, 2026

PRODUCT IDENTIFICATION

Product Name	Lemongrass Essential Oil
Botanical Name	Cymbopogon flexuosus / citratus
INCI Name	Cymbopogon Flexuosus (Lemongrass) Oil
CAS Number	8007-02-1
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	May 24, 2026

IFRA COMPLIANCE STATEMENT

Navy Heart Essential Oils hereby confirms that Lemongrass Essential Oil 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 the product categories listed below, provided it is used at or below the maximum concentration levels stated.

Lemongrass is one of the most citral-rich essential oils available, with citral (geranial + neral) typically comprising 66–80% of the total composition. Citral is the primary restricted constituent, with strict IFRA limits in leave-on categories due to skin sensitization potential. As a result, lemongrass has very low usage limits in leave-on skincare products but remains unrestricted for candles and wax melts.

Important: The leave-on limits for lemongrass (Categories 5A–5C) are approximately 0.2–0.3% in the finished product. This is very low — formulators using lemongrass in leave-on products should carefully calculate citral contribution from all sources in the formula.

Key restricted constituents (typical composition): Citral (geranial + neral) 65–80% — Geraniol <9% — Linalool <3%.

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)	0.80%	Not recommended — use only trace amounts if required
2	Deodorant & antiperspirant (spray, stick, roll-on)	0.24%	Up to 0.1%
3	Facial makeup, eye products, foundation, blush	0.80%	Up to 0.4%
4	Hair leave-on (hair oil, hair serum, scalp treatment)	4.80%	Up to 1%
5A	Body leave-on: body lotion, butter, oil, cream	0.27%	Up to 0.15% ⚠️ Very low — see note
5B	Face leave-on: facial moisturiser, face cream, serum, toner	0.27%	Up to 0.1% ⚠️ Very low — see note
5C	Hand leave-on: hand cream, hand lotion, cuticle cream	0.27%	Up to 0.1% ⚠️ Very low — see note
5D	Baby leave-on: baby lotion, baby oil, baby cream, diaper cream	0.09%	Not recommended for baby products
6	Intimate wipes, feminine hygiene products	0.63%	Up to 0.2%
7A	Rinse-off body: shower gel, body wash, shampoo, bath products	0.36%	Up to 0.2%
7B	Rinse-off hair: conditioner, hair mask, hair rinse	0.36%	Up to 0.2%
8	Intimate leave-on with anogenital exposure	0.09%	Not recommended
9	Rinse-off: bar soap, body wash, scrubs, bath bombs	2.13%	Up to 2%
10A	Home fragrance: reed diffusers, pot pourri, sachets	2.13%	Up to 1%
10B	Room spray, linen spray, air freshener spray	7.47%	Up to 3%
11A	Fabric treatment rinse-off (fabric softener, laundry detergent)	0.09%	Up to 0.05%
11B	Fabric treatment leave-on (dryer sheets, pillow spray)	0.09%	Up to 0.05%
12	Non-skin contact: candles, wax melts, incense	Not Limited	Up to 8%

Note: Maximum usage levels are calculated based on a typical citral content of ~65-80% using IFRA 51st Amendment citral limits. These limits apply to the finished product. Lemongrass has generous limits only in rinse-off and non-skin-contact categories.

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):

The maximum of 2.13% (rounded to 2%) for soap is workable, but note that lemongrass can cause slight ricing or acceleration in cold process soap due to its high citral content. Stick blending should be minimal. Consider using lemongrass at 1–2% blended with a well-behaved anchoring oil (lavender, patchouli).

Blending in leave-on products:

Because the leave-on limits are so low (~0.2–0.3%), lemongrass is most practically used in leave-on products as a blending note rather than a primary oil. When combined with other citral-containing oils (lemon, melissa), total citral across all sources must stay within the category limit.

Phototoxicity:

Lemongrass essential oil is not considered phototoxic. No furanocoumarin concerns apply.

Skin sensitization warning:

Citral is a known skin sensitizer. Always recommend patch testing to customers, especially for leave-on body and face products.

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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