

IFRA CONFORMITY CERTIFICATE

Essential Oil

Product: CLOVE BUD OIL

We certify that the above compound is in compliance with the Standards of the INTERNATIONAL FRAGRANCE ASSOCIATION (IFRA - 50th Amendment / published June 2021), provided it is used in the following category(ies) at a maximum concentration level of:

| <i>IFRA class(es)</i> | Maximum Level of use (%) | <i>IFRA class(es)</i> | Maximum Level of use (%) |
|-----------------------|---------------------------------|-----------------------|---------------------------------|
| <i>Category 1</i> | <i>0.500</i> | <i>Category 7A</i> | <i>0.500</i> |
| <i>Category 2</i> | <i>0.159</i> | <i>Category 7B</i> | <i>0.500</i> |
| <i>Category 3</i> | <i>0.290</i> | <i>Category 8</i> | <i>0.190</i> |
| <i>Category 4</i> | <i>0.500</i> | <i>Category 9</i> | <i>0.500</i> |
| <i>Category 5A</i> | <i>0.500</i> | <i>Category 10A</i> | <i>0.500</i> |
| <i>Category 5B</i> | <i>0.500</i> | <i>Category 10B</i> | <i>0.500</i> |
| <i>Category 5C</i> | <i>0.500</i> | <i>Category 11A</i> | <i>0.190</i> |
| <i>Category 5D</i> | <i>0.190</i> | <i>Category 11B</i> | <i>0.190</i> |
| <i>Category 6</i> | <i>0.500</i> | <i>Category 12</i> | <i>25.00</i> |

| Regulated Substance | Max Concentration (%) | Limiting Substance |
|----------------------------|------------------------------|---------------------------|
| Eugenol | 88.0 | Yes |
| Isoeugenol | 1.0 | No |
| Benzyl benzoate | 0.2 | No |
| Furfural | 0.2 | Yes |
| Methyl Eugenol | 0.1 | Yes |

The essential oil of Clove Bud on its own, is not impacted by the IFRA code for its use in perfuming compositions, however, the components listed above are impacted

For other kinds of application or use at higher concentration levels, a new evaluation may be needed; please contact Supplier.

The IFRA Standards regarding use restrictions are based on safety assessments by the Panel of Experts of the RESEARCH INSTITUTE FOR FRAGRANCE MATERIALS (RIFM) and are enforced by the IFRA Scientific Committee. Evaluation of individual Fragrance ingredients is made according to the safety standards contained in the relevant section of the IFRA Code of Practice.

This certificate is based on statistical analytical data and is not carried out on each batch. The stated use levels relate to this specific material alone and may not be valid when used in combination with other restricted materials. It is the ultimate responsibility of our customer to ensure the safety of the final product (containing this fragrance) by further testing if need be.

Definition of IFRA 49th Amendment Categories

List of IFRA categories and subcategories with corresponding product

| IFRA Category Product Type | IFRA Sub-category | Flavour use | Phototoxicity | IFRA category for Certificate of Conformity of fragrance mixtures with IFRA Standards |
|--|-------------------|-------------|--------------------------------|---|
| Category 1 | | | | |
| Lip Products of all types (solid and liquid lipsticks, balms, clear or colored, etc.) | | YES | Applicable (leave-on products) | Category 1 |
| Children's toys | | YES | Applicable (leave-on products) | Category 1 |
| Category 2 | | | | |
| Deodorant and antiperspirant products of all types including any product with intended or reasonably foreseeable use on the axillae or labelled as such (spray, stick, roll-on, under-arm, deo- cologne, etc.) | | NO | Applicable (leave-on products) | Category 2 |
| Body sprays (including body mist) | | NO | Applicable (leave-on products) | Category 2 |
| Category 3 | | | | |
| Eye products of all types (eye shadow, mascara, eyeliner, eye make-up, eye masks, eye pillows, etc.) including eye care and moisturizer | | NO | Applicable (leave-on products) | Category 3 |
| Facial make up and foundation | | NO | Applicable (leave-on products) | Category 3 |
| Make-up remover for face and eyes | | NO | Applicable (leave-on products) | Category 3 |
| Nose pore strips | | NO | Applicable (leave-on products) | Category 3 |
| Wipes or refreshing tissues for face, neck, hands, body | | NO | Applicable (leave-on products) | Category 3 |
| Body and face paint (for children and adults) | | NO | Applicable (leave-on products) | Category 3 |
| Facial masks for face and around the eyes | | NO | Applicable (leave-on products) | Category 3 |
| Category 4 | | | | |
| Hydroalcoholic and non-hydroalcoholic fine fragrance of all types (Eau de Toilette, Parfum, Cologne, solid perfume, fragrancing cream, aftershaves of all types, etc.) | | NO | Applicable (leave-on products) | Category 4 |
| Fragranced bracelets | | NO | Applicable (leave-on products) | Category 4 |
| Ingredients of perfume kits and fragrance mixtures for cosmetic kits | | NO | Applicable (leave-on products) | Category 4 |
| Scent pads, foil packs | | NO | Applicable (leave-on products) | Category 4 |
| Scent strips for hydroalcoholic products | | NO | Applicable (leave-on products) | Category 4 |
| Category 5 | | | | |
| Body creams, oils, lotions of all types | A | NO | Applicable (leave-on products) | Category 5A |
| Foot care products (creams and powders) | A | NO | Applicable (leave-on products) | Category 5A |
| Insect repellent (intended to be applied to the skin) | A | NO | Applicable (leave-on products) | Category 5A |
| All powders and talc (excluding baby powders and talc) | A | NO | Applicable (leave-on products) | Category 5A |

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|---|---|-----|---------------------------------|-------------|
| Facial toner | B | NO | Applicable (leave-on products) | Category 5B |
| Facial moisturizers and creams | B | NO | Applicable (leave-on products) | Category 5B |
| Hand cream | C | NO | Applicable (leave-on products) | Category 5C |
| Nail care products including cuticle creams, etc. | C | NO | Applicable (leave-on products) | Category 5C |
| Hand sanitizers | C | NO | Applicable (leave-on products) | Category 5C |
| Baby cream/lotion, baby oil, baby powders and talc | D | NO | Applicable (leave-on products) | Category 5D |
| Category 6 | | | | |
| Toothpaste | | YES | Applicable (leave-on products) | Category 6 |
| Mouthwash, including breath sprays | | YES | Applicable (leave-on products) | Category 6 |
| Toothpowder, strips, mouthwash tablets | | YES | Applicable (leave-on products) | Category 6 |
| Category 7 | | | | |
| Hair permanent or other hair chemical treatments (rinse-off) (e.g. relaxers), including rinse-off hair dyes | A | NO | Applicable (rinse-off products) | Category 7A |
| Hair sprays of all types (pumps, aerosol sprays, etc.) | B | NO | Applicable (leave-on products) | Category 7B |
| Hair styling aids non sprays (mousse, gels, leave-on conditioners) | B | NO | Applicable (leave-on products) | Category 7B |
| Hair permanent or other hair chemical treatments (leave-on) (e.g. relaxers), including leave-on hair dyes | B | NO | Applicable (leave-on products) | Category 7B |
| Shampoo - Dry (waterless shampoo) | B | NO | Applicable (leave-on products) | Category 7B |
| Hair deodorizer | B | NO | Applicable (leave-on products) | Category 7B |
| Category 8 | | | | |
| Intimate wipes | | NO | Applicable (leave-on products)* | Category 8 |
| Tampons | | NO | Applicable (leave-on products)* | Category 8 |
| Baby wipes | | NO | Applicable (leave-on products)* | Category 8 |
| Toilet paper (wet) | | NO | Applicable (leave-on products)* | Category 8 |
| Category 9 | | | | |
| Bar soap | | NO | Applicable (rinse-off products) | Category 9 |
| Shampoo of all type | | NO | Applicable (rinse-off products) | Category 9 |
| Cleanser for face (rinse-off) | | NO | Applicable (rinse-off products) | Category 9 |
| Conditioner (rinse-off) | | NO | Applicable (rinse-off products) | Category 9 |
| Liquid soap | | NO | Applicable (rinse-off products) | Category 9 |
| Body washes and shower gels of all types | | NO | Applicable (rinse-off products) | Category 9 |
| Baby wash, bath, shampoo | | NO | Applicable (rinse-off products) | Category 9 |
| Bath gels, foams, mousses, salts, oils and other products added to bathwater | | NO | Applicable (rinse-off products) | Category 9 |
| Foot care products (feet are placed in a bath for soaking) | | NO | Applicable (rinse-off products) | Category 9 |
| Shaving creams of all types (stick, gels, foams, etc.) | | NO | Applicable (rinse-off products) | Category 9 |

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|--|---|----|---|--------------|
| All depilatories (including facial) and waxes for mechanical hair removal | | NO | Applicable (rinse-off products) | Category 9 |
| Shampoos for pets | | NO | Applicable (rinse-off products) | Category 9 |
| Category 10 | | | | |
| Hand wash laundry detergent (including concentrates) | A | NO | Applicable (rinse-off products) | Category 10A |
| Laundry pre-treatment of all types (e.g. paste, sprays, sticks) | A | NO | Applicable (rinse-off products) | Category 10A |
| Hand dishwashing detergent (including concentrates) | A | NO | Applicable (rinse-off products) | Category 10A |
| Hard surface cleaners of all types (bathroom and kitchen cleansers, furniture polish, etc.) | A | NO | Applicable (rinse-off products) | Category 10A |
| Machine laundry detergents with skin contact (e.g. liquids, powders) including concentrates | A | NO | Applicable (rinse-off products) | Category 10A |
| Dry cleaning kits | A | NO | Applicable (rinse-off products) | Category 10A |
| Toilet seat wipes | A | NO | Applicable (rinse-off products) | Category 10A |
| Fabric softeners of all types including fabric softener sheets | A | NO | Applicable (rinse-off products) | Category 10A |
| Household cleaning products, other types including fabric cleaners, soft surface cleaners, carpet cleaners, furniture polishes sprays and wipes, leather cleaning wipes, stain removers, fabric enhancing sprays, treatment products for textiles (e.g. starch sprays, fabric treated with fragrances after wash, deodorizers for textiles or fabrics) | A | NO | Applicable (rinse-off products) | Category 10A |
| Floor wax | A | NO | Applicable (rinse-off products) | Category 10A |
| Fragranced oil for lamp ring, reed diffusers, pot-pourri, liquid refills for air fresheners (non-cartridge systems), etc. | A | NO | Applicable (rinse-off products) | Category 10A |
| Ironing water (Odorized distilled water) | A | NO | Applicable (rinse-off products) | Category 10A |
| Animal sprays – sprays applied to animals of all types | B | NO | Applicable (leave-on products) | Category 10B |
| Air freshener sprays, manual, including aerosol and pump | B | NO | Applicable (leave-on products) | Category 10B |
| Aerosol/spray insecticides | B | NO | Applicable (leave-on products) | Category 10B |
| Category 11 | | | | |
| Feminine hygiene conventional pads, liners, interlabial pads | A | NO | Not applicable (leave-on products without UV) | Category 11A |
| Diapers (baby and adult) | A | NO | Not applicable (leave-on products without UV) | Category 11A |
| Adult incontinence pant, pad | A | NO | Not applicable (leave-on) | Category 11A |
| Toilet paper (dry) | A | NO | Not applicable (leave-on products without UV) | Category 11A |
| Tights with moisturizers | B | NO | Applicable (leave-on products) | Category 11B |
| Scented socks, gloves | B | NO | Applicable (leave-on products) | Category 11B |

| | | | | |
|--|---|----|--|--------------|
| Facial tissues (dry tissues) | B | NO | Applicable (leave-on products) | Category 11B |
| Napkins | B | NO | Applicable (leave-on products) | Category 11B |
| Paper towels | B | NO | Applicable (leave-on products) | Category 11B |
| Wheat bags | B | NO | Applicable (leave-on products) | Category 11B |
| Facial masks (paper/protective) e.g. surgical masks not used as medical device | B | NO | Applicable (leave-on products) | Category 11B |
| Fertilizers, solid (pellet or powder) | B | NO | Applicable (leave-on products) | Category 11B |
| Category 12 | | | | |
| Candles of all types (including encased) | | NO | Not applicable (non-skin) | Category 12 |
| Laundry detergents for machine wash with minimal skin contact (e.g. Liquid tabs, pods) | | NO | Not applicable (non-skin) | Category 12 |
| Automated air fresheners and fragrancing of all types (concentrated aerosol with metered doses (range 0.05-0.5mL/spray), plug-ins, closed systems, solid substrate, membrane delivery, electrical, powders, fragrancing sachets, incense, liquid refills (cartridge), air freshening crystals) | | NO | Not applicable (non-skin contact products) | Category 12 |
| Air delivery systems | | NO | Not applicable (non-skin) | Category 12 |
| Cat litter | | NO | Not applicable (non-skin) | Category 12 |
| Cell phone cases | | NO | Not applicable (non-skin) | Category 12 |
| Deodorizers/maskers not intended for skin contact (e.g. fabric drying machine deodorizers, carpet powders) | | NO | Not applicable (non-skin) | Category 12 |
| Fuels | | NO | Not applicable (non-skin) | Category 12 |
| Insecticides (e.g. mosquito coil, paper, electrical, for clothing) excluding aerosols/sprays | | NO | Not applicable (non-skin contact products) | Category 12 |
| Joss sticks or incense sticks | | NO | Not applicable (non-skin) | Category 12 |
| Dishwash detergent and deodorizers – for machine wash | | NO | Not applicable (non-skin) | Category 12 |
| Olfactive board games | | NO | Not applicable (non-skin) | Category 12 |
| Paints | | NO | Not applicable (non-skin) | Category 12 |
| Plastic articles (excluding toys) | | NO | Not applicable (non-skin) | Category 12 |
| Scratch and sniff | | NO | Not applicable (non-skin) | Category 12 |
| Scent pack | | NO | Not applicable (non-skin) | Category 12 |
| Scent delivery system (using dry air technology) | | NO | Not applicable (non-skin) | Category 12 |
| Shoe polishes | | NO | Not applicable (non-skin) | Category 12 |
| Rim blocks (Toilet) | | NO | Not applicable (non-skin) | Category 12 |
| *For the 49 th Amendment, phototoxic effects are taken into consideration for Category 8 (Products with significant anogenital exposure), for reasons of conservatism to take into account potential uses of the products that could include sun exposure (e.g. baby wipes). | | | | |