



## CERTIFICATE OF CONFORMITY OF FRAGRANCE MIXTURES WITH IFRA STANDARDS

This Certificate assesses the conformity of a fragrance mixture with IFRA Standards and provides restrictions for use as necessary. It is based only on those materials subject to IFRA Standards for the toxicity endpoint(s) described in each Standard.

### CERTIFYING PARTY:

Zen Aroma  
22c Portside Drive, Mt Maunganui, 3116, New Zealand

### CERTIFICATE DELIVERED TO:

Customer:

### SCOPE OF THE CERTIFICATE:

Product: 21363 THAI LIME & MANGO

### COMPULSORY INFORMATION:

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

<b><i>IFRA Category(ies) [see Table 12 in Guidance for the use of IFRA Standards for details]</i></b>	<b><i>Level of use (%)*</i></b>
<b><i>Category 1</i></b>	<b><i>0.5066</i></b>
<b><i>Category 2</i></b>	<b><i>0.1474</i></b>
<b><i>Category 3</i></b>	<b><i>0.4605</i></b>
<b><i>Category 4</i></b>	<b><i>2.7631</i></b>
<b><i>Category 5A</i></b>	<b><i>0.6908</i></b>
<b><i>Category 5B</i></b>	<b><i>0.6908</i></b>
<b><i>Category 5C</i></b>	<b><i>0.6908</i></b>
<b><i>Category 5D</i></b>	<b><i>0.2349</i></b>
<b><i>Category 6</i></b>	<b><i>1.6118</i></b>
<b><i>Category 7A</i></b>	<b><i>0.9210</i></b>
<b><i>Category 7B</i></b>	<b><i>0.9210</i></b>
<b><i>Category 8</i></b>	<b><i>0.2349</i></b>
<b><i>Category 9</i></b>	<b><i>3.8156</i></b>
<b><i>Category 10A</i></b>	<b><i>3.8156</i></b>
<b><i>Category 10B</i></b>	<b><i>15.7713</i></b>
<b><i>Category 11A</i></b>	<b><i>0.2349</i></b>
<b><i>Category 11B</i></b>	<b><i>0.2349</i></b>
<b><i>Category 12</i></b>	<b><i>100.0000</i></b>

*\*Actual use level or maximum use level*

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

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**OPTIONAL INFORMATION:**

**Product:** 21363 THAI LIME & MANGO

Information about presence and concentration of fragrance ingredients subject to IFRA Standards in the fragrance mixture named above is as follows:

<b>Materials under the scope of IFRA Standards:</b>	<b>CAS number(s):</b>	<b>Recommendation from IFRA Standard:</b>	<b>Concentration (%) in fragrance mixture or finished product:</b>
4-(4-Hydroxyphenyl)butan-2-one	5471-51-2		2.7846
7-Methoxycoumarin	531-59-9	Prohibition: 7-Methoxycoumarin as such should not be used as fragrance ingredient. The natural extracts containing 7-Methoxycoumarin should not be used as substitutes for this substance. Restriction: On the basis of established maximum concentration levels of this substance in commercially available natural sources (like essential oils, extracts and absolutes), exposure to this substance from the use of these oils and extracts is regarded acceptable as long as the level of 7-Methoxy-coumarin in the finished product does not exceed 0.01% (100 ppm).	0.0057
a-Methyl-1,3-benzodioxole-5-propionaldehyde (MMDHCA)	1205-17-0		3.9312
Citronellal	106-23-0		0.0934

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Dimethylcyclohex-3-ene-1-carbaldehyde (mixed isomers)	68039-49-6	Restriction: The above limits apply to Dimethylcyclohexen-3-ene-1-carbaldehyde (mixed isomers) used individually or in combination. The sum of concentrations of Dimethylcyclohexen-3-ene-1-carbaldehyde isomers should not exceed the maximum concentration levels established by this Standard.	0.1638
Lemon oil cold pressed	8008-56-8		11.4660
Citral	5392-40-5		21.7150
Eugenol	97-53-0		0.1638
Geraniol	106-24-1		9.0205
Limonene	5989-27-5	Specification: Oxidation products of Limonene, especially hydroperoxides, have been demonstrated to be potent sensitizers. d-, l- and dl-Limonene and natural products containing substantial amounts of it, should only be used when the level of (hydro)peroxides is kept to the lowest practical level, for instance by adding antioxidants at the time of production. The addition of 0.1% BHT or $\alpha$ -Tocopherol for example has shown great efficiency. Such products should have a peroxide value of less than 20 millimoles per liter, determined according to the IFRA analytical method for the determination of the peroxide value, which can be downloaded from the IFRA website ( <a href="http://www.ifrafragrance.org">www.ifrafragrance.org</a> ).	7.7805

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Linalool	78-70-6	Specification: Oxidation products of Linalool, especially hydroperoxides, have been demonstrated to be potent sensitizers. d-, l- and dl-Linalool and natural products containing substantial amounts of it, should only be used when the level of (hydro)peroxides is kept to the lowest practical level, for instance by adding antioxidants at the time of production. The addition of 0.1% BHT or $\alpha$ -Tocopherol for example has shown great efficiency. Such products should have a peroxide value of less than 20 millimoles per liter, determined according to the IFRA analytical method for the determination of the peroxide value, which can be downloaded from the IFRA website ( <a href="http://www.ifrafragrance.org">www.ifrafragrance.org</a> ).	4.9140
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Date: 23 Feb 2022

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Annex: Definition of IFRA Standard categories by product type

Product type	Category
Lip Products of all types (solid and liquid lipsticks, balms, clear or colored, etc.) Children's toys	1
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, deocologne, etc.) Body sprays (including body mist)	2
Eye products of all types (eye shadow, mascara, eyeliner, eye make-up, eye masks, eye pillows, etc.) including eye care and moisturizer Facial make up and foundation Make-up remover for face and eyes Nose pore strips Wipes or refreshing tissues for face, neck, hands, body Body and face paint (for children and adults) Facial masks for face and around the eyes	3
Hydroalcoholic and non-hydroalcoholic fine fragrance of all types (Eau de Toilette, Parfum, Cologne, solid perfume, fragrancing cream, aftershaves of all types, etc.) Fragranced bracelets Ingredients of perfume kits and fragrance mixtures for cosmetic kits Scent pads, foil packs Scent strips for hydroalcoholic products	4
Products applied to the face and body using the hands (palms), primarily leave-on:	
Body creams, oils, lotions of all types Foot care products (creams and powders) Insect repellent (intended to be applied to the skin) All powders and talc (excluding baby powders and talc)	5A
Facial toner Facial moisturizers and creams	5B
Hand cream Nail care products including cuticle creams, etc. Hand sanitizers	5C
Baby cream/lotion, baby oil, baby powders and talc	5D
Toothpaste Mouthwash, including breath sprays Toothpowder, strips, mouthwash tablets	6
Products applied to the hair with some hand contact:	
Hair permanent or other hair chemical treatments (rinse-off) (e.g. relaxers), including rinse-off hair dyes	7A
Hair sprays of all types (pumps, aerosol sprays, etc.) Hair styling aids non sprays (mousse, gels, leave- on conditioners) Hair permanent or other hair chemical treatments (leave-on) (e.g. relaxers), including leave-on hair dyes	7B
Intimate wipes Tampons Baby wipes Toilet paper (wet)	8

Annex: Definition of IFRA Standard categories by product type - continued

Product type	Category
<p>Bar soap Shampoo of all type Cleanser for face (rinse-off) Conditioner (rinse-off) Liquid soap Body washes and shower gels of all types Baby wash, bath, shampoo Bath gels, foams, mousses, salts, oils and other products added to bathwater Foot care products (feet are placed in a bath for soaking) Shaving creams of all types (stick, gels, foams, etc.) All depilatories (including facial) and waxes for mechanical hair removal Shampoos for pets</p>	9
Household care products with mostly hand contact:	
<p>Hand wash laundry detergent (including concentrates) Laundry pre-treatment of all types (e.g. paste, sprays, sticks) Hand dishwashing detergent (including concentrates) Hard surface cleaners of all types (bathroom and kitchen cleansers, furniture polish, etc.) Machine laundry detergents with skin contact (e.g. liquids, powders) including concentrates Dry cleaning kits Toilet seat wipes Fabric softeners of all types including fabric softener sheets 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) Floor wax Fragranced oil for lamp ring, reed diffusers, pot-pourri, liquid refills for air fresheners (non-cartridge systems), etc. Ironing water (Odorized distilled water)</p>	10A
<p>Animal sprays – sprays applied to animals of all types Air freshener sprays, manual, including aerosol and pump Aerosol/spray insecticides</p>	10B
Products with intended skin contact but minimal transfer of fragrance to skin from inert substrate:	
<p>Feminine hygiene conventional pads, liners, interlabial pads Diapers (baby and adult) Adult incontinence pant, pad Toilet paper (dry)</p>	11A
<p>Tights with moisturizers Scented socks, gloves Facial tissues (dry tissues) Napkins Paper towels Wheat bags Facial masks (paper/protective) e.g. surgical masks not used as medical device Fertilizers, solid (pellet or powder)</p>	11B
<p>Candles of all types (including encased) Laundry detergents for machine wash with minimal skin contact (e.g. Liquid tabs, pods) 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) Air delivery systems Cat litter Cell phone cases Deodorizers/maskers not intended for skin contact (e.g. fabric drying machine deodorizers, carpet powders) Fuels Insecticides (e.g. mosquito coil, paper, electrical, for clothing) excluding aerosols/sprays Joss sticks or incense sticks Dishwash detergent and deodorizers – for machine wash Olfactive board games Paints Plastic articles (excluding toys) Scratch and sniff Scent pack Scent delivery system (using dry air technology) Shoe polishes Rim blocks (Toilet)</p>	12



## Allergen Analysis

**Product:** 21363 THAI LIME & MANGO

Ingredient	CAS number(s):	Concentration present as a percentage (%) or "A" for absent
alpha-iso-Methylionone	127-51-5	A
Amyl Cinnamal	122-40-7	A
Amylcinnamyl Alcohol	101-85-9	A
Anise Alcohol	105-13-5	A
Benzyl Alcohol	100-51-6	A
Benzyl Benzoate	120-51-4	A
Benzyl Cinnamate	103-41-3	A
Benzyl Salicylate	118-58-1	A
Butylphenyl Methylpropional (Lilial)	80-54-6	A
Cinnamal	104-55-2	A
Cinnamyl Alcohol	104-54-1	A
Citral	106-26-3, 141-27-5, 5392-40-5	21.7150
Citronellol	106-22-9, 1117-61-9, 141-25-3, 26489-01-0, 6812-78-8, 7540-51-4	A
Coumarin	91-64-5	A
Eugenol	97-53-0	0.1638
Evernia Furfuraceae (Tree Moss) Extract	90028-67-4	A
Evernia Prunastri (Oak Moss) Extract	90028-68-5	A
Farnesol	4602-84-0	A
Geraniol	106-24-1	9.0205
Hexyl Cinnamal	101-86-0	A
Hydroxycitronellal	107-75-5	A
Hydroxyisohexyl 3-Cyclohexene Carboxaldehyde (Lyral)	31906-04-4	A
Isoeugenol	5932-68-3, 97-54-1	A
Limonene	138-86-3, 5989-27-5, 5989-54-8, 7705-14-8	7.7805
Linalool	126-90-9, 126-91-0, 78-70-6	4.9140
Methyl 2-Octynoate	111-12-6	A

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