



FRATERWORKS

## 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:

Fraterworks  
P. O. Box 46009, Park Avenue, Lower Hutt 5044, New Zealand

### CERTIFICATE DELIVERED TO:

Customer:

### SCOPE OF THE CERTIFICATE:

Product: 311224 BOULEAU PYROGENE 1840

### 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 51st Amendment to the IFRA Standards (published June, 2023), 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>0.7300</i></b>
<b><i>Category 2</i></b>	<b><i>0.2200</i></b>
<b><i>Category 3</i></b>	<b><i>1.8182</i></b>
<b><i>Category 4</i></b>	<b><i>1.8182</i></b>
<b><i>Category 5A</i></b>	<b><i>1.0000</i></b>
<b><i>Category 5B</i></b>	<b><i>1.0000</i></b>
<b><i>Category 5C</i></b>	<b><i>1.0000</i></b>
<b><i>Category 5D</i></b>	<b><i>0.3400</i></b>
<b><i>Category 6</i></b>	<b><i>1.8182</i></b>
<b><i>Category 7A</i></b>	<b><i>1.8182</i></b>
<b><i>Category 7B</i></b>	<b><i>1.8182</i></b>
<b><i>Category 8</i></b>	<b><i>0.3400</i></b>
<b><i>Category 9</i></b>	<b><i>1.8182</i></b>
<b><i>Category 10A</i></b>	<b><i>1.8182</i></b>
<b><i>Category 10B</i></b>	<b><i>1.8182</i></b>
<b><i>Category 11A</i></b>	<b><i>0.3400</i></b>
<b><i>Category 11B</i></b>	<b><i>0.3400</i></b>
<b><i>Category 12</i></b>	<b><i>90.9091</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:** 311224 BOULEAU PYROGENE 1840

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>
2-Methoxy-4-methylphenol	93-51-6		0.3000
a-Bisabolol	515-69-5		0.0480
alpha-Cedrene	469-61-4		1.9440
Benzaldehyde	100-52-7		0.0400
beta.-Cedrene	546-28-1		0.4720

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Birch wood pyrolysate	8001-88-5	<p>Prohibition: Crude birch wood (bark) pyrolysates (oils) derived by pyrolysis (destructive distillation) of the wood or bark of <i>Betula pubescens</i>, <i>Betula pendula</i>, <i>Betula lenta</i> or <i>Betula alba</i> should not be used as a fragrance ingredient for any finished product application. Only rectified (purified) Birch tar oils being in compliance with the limitations for polynuclear aromatic hydrocarbons (PAH) established by this IFRA Standard should be used.</p> <p>Specification: Limit content of polynuclear aromatic hydrocarbons (PAH) resulting from the use of rectified oils according to Good Manufacturing Practice.</p> <p>Benzopyrene and 1,2-Benzanthracene are to be used as markers for PAH. If used alone or in combination with rectified Cade oil, rectified Styrax oil or rectified Opoponax oil, the total concentration of both of the markers should not exceed 1 ppb in the final product.</p>	10.0000
Cedr-8-ene	11028-42-5		2.4160
Furfural	98-01-1		0.0550
Methyl eugenol	93-15-2		0.0001

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Oakmoss extracts	9000-50-4	<p>Restriction: For Oakmoss and Treemoss extracts, the restrictions in the Standards are directly linked to the presence of Atranol and Chloroatranol in the finished products. To ensure that those remain below trace levels, the upper concentration levels have not been increased (compared its last publication in the Amendment 43 (2008)).</p> <p>In the presence of Treemoss extracts, the level of Oakmoss in the respective category has to be reduced accordingly, such that the total amount of both extracts does not exceed the maximum permitted level in each category as listed in the table above.</p> <p>If the same fragrance mixture is intended to be used in more than one IFRA Category, then the most restrictive limitation (based on foreseen use concentrations and maximum permitted level) will apply.</p> <p>Specification: Oakmoss extracts must not contain added Treemoss, which is a source of resin acids.</p> <p>Traces of resin acids may be carried over to commercial qualities of Oakmoss in the manufacturing process. These traces must not exceed 0.1% (1000 ppm) of Dehydroabietic acid (DHA) in the extract. The concentration of resin acids in Oakmoss can be measured with an High Performance Liquid Chromatography (HPLC) Reverse Phase – Spectrofluorometry method.</p> <p>Further, levels of Atranol and Chloroatranol should each be below 100 ppm in Oakmoss extracts.</p>	0.2500
p-Cresol	106-44-5		0.1200
p-Methoxybenzaldehyde	123-11-5		0.5000
Peru balsam	8007-00-9	<p>Prohibition: Peru balsam crude should not be used as a fragrance ingredient for any finished product application.</p> <p>Restriction: The restriction only applies to Peru balsam extracts and distillates (Peru balsam oil, absolute and anhydrol).</p>	10.0000

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Rose ketones	23696-85-7	Restriction: The above limits apply to Rose Ketones used individually or in combination. The sum of concentrations of Rose ketones isomers should not exceed the maximum concentration levels established by this Standard.	0.0005
Eugenol	97-53-0		0.0003
Geraniol	106-24-1		0.0003

Date: 17 Mar 2024

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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:** 311224 BOULEAU PYROGENE 1840

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	A
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	0.0003
Evernia Furfuraceae (Tree Moss) Extract	90028-67-4	A
Evernia Prunastri (Oak Moss) Extract	90028-68-5	A
Farnesol	106-28-5, 16106-95-9, 3790-71-4, 3879-60-5, 4602-84-0	A
Geraniol	106-24-1	0.0003
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	A
Linalool	126-90-9, 126-91-0, 78-70-6	A
Methyl 2-Octynoate	111-12-6	A

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