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IFRA CERTIFICATE

Product: **PENTADECANOLIDE**

The IFRA Standards regarding use restriction 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.

It is the ultimate responsibility of the customer to ensure the safety of the final product (containing this fragrance) by further testing if needed.

Name	C.A.S	%
Cyclopentadecanolide (omega-Pentadecalactone)	106-02-5	100,0000 %

We certify that the above compound is in compliance with the standards of the INTERNATIONAL FRAGRANCE ASSOCIATION (IFRA - 49th amendment), provided it is used in the following class at a maximum concentration level of:

Product Type	IFRA Category	Value (%)
Lip Products of all types (solid and liquid lipsticks, balms, clear or colored, etc.)	CLASS 1	0.42%
Children's toys		
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.)	CLASS 2	0.13%
Eye products of all types (eye shadow, mascara, eyeliner, eye make-up, eye masks, eye pillows, etc.) including eye care and moisturizer	CLASS 3	2.5%
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		
Hydroalcoholic and non-hydroalcoholic fine fragrance of all types (Eau de Toilette, Parfum, Cologne, solid perfume, fragancing cream, aftershaves of all types, etc.)	CLASS 4	2.4%
Fragranced bracelets		
Ingredients of perfume kits and fragrance mixtures for cosmetic kits		
Scent pads, foil packs		
Scent strips for hydroalcoholic products		
Body creams, oils, lotions of all types	CLASS 5A	0.6%
Foot care products (creams and powders)		
Insect repellent (intended to be applied to the skin)		
All powders and talc (excluding baby powders and talc)		
Facial toner	CLASS 5B	0.6%
Facial moisturizers and creams		
Hand cream	CLASS 5C	0.6%
Nail care products including cuticle creams, etc.		
Hand sanitizers		
Baby cream/lotion, baby oil, baby powders and talc	CLASS 5D	0.2%
Toothpaste	CLASS 6	1.4%
Mouthwash, including breath sprays		
Toothpowder, strips, mouthwash tablets		
Toothpowder, strips, mouthwash tablets	CLASS 7A	4.8%
Hair sprays of all types (pumps, aerosol sprays, etc.	CLASS 7B	4.8%
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		
Shampoo - Dry (waterless shampoo)		
Hair deodorizer		
Intimate wipes	CLASS 8	0.2%
Tampons		
Baby wipes		

Toilet paper (wet)	CLASS 9	4.6%
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		
Hand wash laundry detergent (including concentrates)	CLASS 10A	4.6%
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)		
Animal sprays – sprays applied to animals of all types	CLASS 10B	17%
Air freshener sprays, manual, including aerosol and pump		
Aerosol/spray insecticides		
Feminine hygiene conventional pads, liners, interlabial pads	CLASS 11A	0.2%
Diapers (baby and adult)		
Adult incontinence pant, pad		
Toilet paper (dry)		
Tights with moisturizers	CLASS 11B	0.2%
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)		
Candles of all types (including encased)	CLASS 12	100%
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)		