

IFRA CERTIFICATION

PRODUCT CODE: 27857

PRODUCT NAME: HEDIONE

We certify that the above mentioned product is in compliance with the standards of the 49th Amendment of IFRA safety guidelines, provided it is a maximum concentration level of:

1. Maximum permitted concentration in the final product

These limits may not be valid if our fragrance ingredient/base is used in conjunction with other materials that also contain these restricted substances. The total concentrations in the final product of all restricted substances should be taken into account when determining the maximum concentration permitted by IFRA.

IFRA Class	Maximum Usage Level
1	NO RESTRICTION
2	NO RESTRICTION
3	NO RESTRICTION
4	NO RESTRICTION
5A	NO RESTRICTION
5B	NO RESTRICTION
5C	NO RESTRICTION
5D	NO RESTRICTION
6	NO RESTRICTION
7A	NO RESTRICTION
7B	NO RESTRICTION
8	NO RESTRICTION
9	NO RESTRICTION
10A	NO RESTRICTION
10B	NO RESTRICTION
11A	NO RESTRICTION
11B	NO RESTRICTION
12	NO RESTRICTION

*Due to the possibility of ingestion of small amounts of fragrance ingredients, materials present in the fragrance compound for us in this category must be approved for use in food.

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 safety standards contained in the relevant section of the IFRA Code of Practice.

It is the ultimate responsibility of our customer to ensure the safety of the final product (containing this raw material) by further testing if need be.

2. Ingredients that are banned or limited by IFRA

Section 2.1 lists ingredients that are banned by IFRA either because they are banned outright or because they contain constituent substances (components of natural complex materials or impurities in synthetic fragrance materials) that exceed purity limits set by IFRA.

Section 2.2 lists ingredients or substances that are restricted by IFRA. In cases where section 2.1 indicates that the fragrance ingredient/base is banned by IFRA, we are still providing information on ingredients and substances that are subject only to quantitative limits as these may determine the limits of compliance once the banned ingredient has been removed.

For further information on the IFRA Standards relating to these ingredients, they can be found on www.ifraorg.org or by request from us.

2.1. Ingredients and substances banned by IFRA

Name CAS # Quantity in fragrance ingredient/base

2.2. Ingredients and substances subject to limitations by IFRA

Name CAS # Quantity in fragrance ingredient/base

3. Substances, which may have some potential to form nitrosamines in the presence of nitrosating systems

NONE

APPENDIX FOR IFRA 49 CATEGORIES

IFRA Class	Finished product types
1	Children's toys – Lip Products of all types (solid and liquid lipsticks, balms, clear or colored, etc.)
2	Body sprays (including body mist) – 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.)
3	Body and face paint (for children and adults) – 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 – Facial masks for face and around the eyes – Make-up remover for face and eyes – Nose pore strips – Wipes or refreshing tissues for face, neck, hands, body
4	Fragranced bracelets – Hydroalcoholic and non-hydroalcoholic fine fragrance of all types (Eau de Toilette, Parfum, Cologne, solid perfume, fragrancing cream, aftershaves of all types, etc.) – Ingredients of perfume kits and fragrance mixtures for cosmetic kits – Scent pads, foil packs – Scent strips for hydroalcoholic products.
5A	All powders and talc (excluding baby powders and talc) – Body creams, oils, lotions of all types – Foot care products (creams and powders) – Insect repellent (intended to be applied to the skin)
5B	Facial moisturizers and creams – Facial toner
5C	Hand cream – Hand sanitizers – Nail care products including cuticle creams, etc.
5D	Baby cream/lotion, baby oil, baby powders and talc
6	Mouthwash, including breath sprays – Toothpaste – Toothpowder, strips, mouthwash tablets
7A	Hair permanent or other hair chemical treatments (rinse-off) (e.g. relaxers), including rinse-off hair dyes
7B	Hair deodorizer – Hair permanent or other hair chemical treatments (leave-on) (e.g. relaxers), including leave-on hair dyes – Hair sprays of all types (pumps,

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