

Product	
Product Name	Grapefrukt - eterisk olja, ekologisk
Product Code	E1018
INCI	Citrus Paradisi (Grapefruit) Peel Oil
CAS	8016-20-4
EINECS	289-904-6

Distributor	
Contact details	Opella AB Västberga Allé 5 126 30 Hägersten ☎ 08-12151215 ✉ info@opella.se 📠 070 483 66 26 🌐 www.opella.se

This certificate assesses the conformity of the above named product with IFRA Standards and provides restrictions for use as necessary. It is based only on those materials subjects to IFRA Standards for the toxicity endpoint(s) described in each Standard.

Restricted component	CAS	% level in product	IFRA Standard
Limonene	5989-27-5	95,00%	Specification*
Nootkatone	4674-50-4	0,80%	Specification*

Opella certify that the product is in compliance with the Standards of IFRA, up to and including the 51st amendment to the IFRA Standards, provided it is used in the following category(ies) at a maximum concentration of:

IFRA Category	Maximum level (%) in the finished product	IFRA Category	Maximum level (%) in the finished product
Category 1	4,00%	Category 7A	Not restricted
Category 2	4,00%	Category 7B	4,00%
Category 3	4,00%	Category 8	4,00%
Category 4	4,00%	Category 9	Not restricted
Category 5A	4,00%	Category 10A	Not restricted
Category 5B	4,00%	Category 10B	4,00%
Category 5C	4,00%	Category 11A	Not restricted
Category 5D	4,00%	Category 11B	4,00%
Category 6	4,00%	Category 12	Not restricted

Additional comments
<p>Oxidation products of Limonene and Linalool, especially hydroperoxides, have been demonstrated to be potent sensitizers. d-, l- and dl-Limonene/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 α-Tocopherol for example has shown great efficiency. Such products should have a peroxide value of less than 20 milli moles per liter, determined according to the IFRA analytical method for the determination of the peroxide value, which can be downloaded from the IFRA website (www.ifrafragrance.org)</p> <p>Nootkatone used as a fragrance ingredient should be at least 98% pure, with a melting point of at least 32°C. Lower purity grades may not be used as a fragrance ingredient.</p>

IFRA recommends that, for application to areas of skin exposed to sunshine, expressed grapefruit oil be limited to a maximum of 4% in products applied to the skin except for bath preparation, soaps and rinse off products. If combinations of phototoxic fragrance ingredients are used, the use levels have to be reduced accordingly.

The sum of the concentrations of all phototoxic ingredients, expressed in % of their recommended maximum level in the consumer product shall not exceed 100. See remark on phototoxic ingredients in the Introduction to the IFRA Standards and the Standard on Citrus oil and other furocoumarins-containing essential oils.

For qualities of the expressed oil in which less volatile components have been concentrated by partial or total removal of the terpene fraction, this limit should be reduced in proportion to the degree of concentration.

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