



Product	
Product Name	Verbena - eterisk olja
Product Code	E1045
INCI	Thymus Hiemalis Leaf Oil
CAS	8022-79-5
EINECS	-

Distributor	
Contact details	Opella AB Västberga Allé 5 126 30 Hägersten  08-12151215  070 483 66 26  info@opella.se  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
Citral	5392-40-5	70,00%	Restriction
Geraniol	106-24-1	7,00%	Restriction
Limonene	5989-27-5	4,50%	Specification*
Citronellal	106-23-0	4,20%	Restriction
Citronellol	106-22-9	2,00%	Restriction
Linalool	78-70-6	2,00%	Specification*
Eugenol	97-53-0	0,60%	Restriction
Isoeugenol	97-54-1	0,50%	Restriction

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	0,16%	Category 7A	0,29%
Category 2	0,05%	Category 7B	0,29%
Category 3	0,14%	Category 8	0,07%
Category 4	0,86%	Category 9	1,71%
Category 5A	0,21%	Category 10A	1,71%
Category 5B	0,21%	Category 10B	6,00%
Category 5C	0,21%	Category 11A	0,07%
Category 5D	0,07%	Category 11B	0,07%
Category 6	0,50%	Category 12	100%

Additional comments
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)