

Product	
Product Name	Tallbarr - eterisk olja
Product Code	E1043
INCI	Pinus Sylvestris Leaf Oil
CAS	8023-99-2
EINECS	281-679-2

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	7,00%	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	Not restricted	Category 7A	Not restricted
Category 2	Not restricted	Category 7B	Not restricted
Category 3	Not restricted	Category 8	Not restricted
Category 4	Not restricted	Category 9	Not restricted
Category 5A	Not restricted	Category 10A	Not restricted
Category 5B	Not restricted	Category 10B	Not restricted
Category 5C	Not restricted	Category 11A	Not restricted
Category 5D	Not restricted	Category 11B	Not restricted
Category 6	Not restricted	Category 12	Not restricted

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 $\alpha$ -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)