



NHR ORGANIC OILS
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IFRA 50 Conformity Certificate **Organic Scots Pine Needle Essential Oil** *(Pinus sylvestris)*

This Certificate assesses the conformity of a fragrance mixture with IFRA Standards and provides restrictions for use as necessary. It is based only on those materials subject to IFRA Standards for the toxicity endpoint(s) described in each Standard.

SCOPE OF THE CERTIFICATE:

Product: WHITE PINE PINE ESSENTIAL OIL

PRODUCT INCI: Pinus sylvestris (Pine) Leaf Oil

CAS NUMBER: 84012-35-1 / 8023-99-2

EINECS NUMBER: 281-679-2

MANUFACTURING METHOD: Steam Distillation

We certify that the above mixture,

WHITE PINE (PINUS SYLVESTRIS) ESSENTIAL OIL

is in compliance with the Standards of the INTERNATIONAL FRAGRANCE ASSOCIATION (IFRA), up to and including the 50th Amendment to the IFRA Standards (published June 2021), provided it is used in the following category(ies) at a maximum concentration level of:

Maximum level of use of the WHITE PINE (PINUS SYLVESTRIS) ESSENTIAL OIL (%) in the IFRA classes:

<i>IFRA Category(ies)</i> <i>[see Table 12 in Guidance for the use of IFRA Standards for details]</i>	Level of use (%)*	<i>IFRA Category(ies)</i> <i>[see Table 12 in Guidance for the use of IFRA Standards for details]</i>	Level of use (%)*
<i>Category 1</i>	NR	<i>Category 7 A</i>	NR
<i>Category 2</i>	NR	<i>Category 7 B</i>	NR
<i>Category 3</i>	NR	<i>Category 8</i>	NR
<i>Category 4</i>	NR	<i>Category 9</i>	NR
<i>Category 5 A</i>	NR	<i>Category 10 A</i>	NR
<i>Category 5 B</i>	NR	<i>Category 10 B</i>	NR
<i>Category 5 C</i>	NR	<i>Category 11 A</i>	NR
<i>Category 5 D</i>	NR	<i>Category 11 B</i>	NR
<i>Category 6</i>	NR	<i>Category 12</i>	NR

* maximum use level

For other kinds of application or use at higher concentration levels, a new evaluation may be needed; please contact NHR Organic Oils.

ADDITIONAL INFORMATION:

Information about presence and concentration of fragrance ingredients subject to IFRA Standards in the fragrance mixture White pine (Pinus sylvestris) essential oil is as follows:

Materials under the scope of IFRA Standards:	CAS number(s):	Recommendation from IFRA Standard:	Concentration (%) in the batch:
Limonene *	138-86-3 7705-14-8 5989-27-5 5989-54-8	Specification Dermal sensitization	5,5 – 9,5

Additional Comments:

* Oxidation products of Limonene, especially hydroperoxides, have been demonstrated to be potent sensitizers.

d-, l- and dl-Limonene 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 millimoles 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).

Disclaimer: This Certificate provides restrictions for use of the specified product based only on those materials restricted by IFRA Standards for the toxicity endpoint(s) described in each Standard. This Certificate does not provide certification of a comprehensive safety assessment of all product constituents. This certificate is the responsibility of the fragrance supplier issuing it. It has not been prepared or endorsed by IFRA in anyway.

Category Product type

- 1 Products applied to the lips
- 2 Products applied to the axillae
- 3 Products applied to the face/body using fingertips
- 4 Products related to fine fragrance
- 5 Products applied to the face and body using the hands (palms), primarily leave-on:
- 5A Body lotion products applied to the body using the hands (palms), primarily leave on
- 5B Face moisturizer products applied to the face using the hands (palms), primarily leave on
- 5C Hand cream products applied to the hands using the hands (palms), primarily leave on
- 5D Baby Creams, baby Oils and baby talc
- 6 Products with oral and lip exposure
- 7 Products applied to the hair with some hand contact
- 7A Rinse-off products applied to the hair with some hand contact
- 7B Leave-on products applied to the hair with some hand contact
- 8 Products with significant anogenital exposure
- 9 Products with body and hand exposure, primarily rinse off
- 10 Household care products with mostly hand contact:
- 10A Household care excluding aerosol products (excluding aerosol/spray products)
- 10B Household aerosol/spray products
- 11 Products with intended skin contact but minimal transfer of fragrance to skin from inert substrate
- 11A Products with intended skin contact but minimal transfer of fragrance to skin from inert substrate without UV exposure
- 11B Products with intended skin contact but minimal transfer of fragrance to skin from inert substrate with potential UV exposure
- 12 Products not intended for direct skin contact, minimal or insignificant transfer to skin