

IFRA CONFORMITY & EU FRAGRANCE ALLERGEN REPORT

Product Name: Black Spruce Essential Oil

Botanical Name / INCI: Picea mariana

Country of Origin: Canada

IFRA CONFORMITY STATEMENT

This report has been prepared with reference to the IFRA Standards, up to and including the 51st Amendment. IFRA Standards include prohibitions, restrictions, and specifications for fragrance materials and constituents. We certify that the above mixture complies with the Standards of the International Fragrance Association (IFRA), up to and including the 49th Amendment to the IFRA Standards, published in January 2020, provided that the mixture is used in the applicable product categories at or below the maximum concentration levels specified below.

IFRA Category	Maximum Usage Rate (%)
Category 1	33.00%
Category 2	33.00%
Category 3	33.00%
Category 4	33.00%
Category 5A	33.00%
Category 5B	33.00%
Category 5C	33.00%
Category 5D	33.00%
Category 6	33.00%
Category 7A	33.00%
Category 7B	33.00%
Category 8	33.00%
Category 9	33.00%
Category 10A	33.00%
Category 10B	33.00%
Category 11A	33.00%

IFRA Category	Maximum Usage Rate (%)
Category 11B	33.00%
Category 12	33.00%

Maximum Usage Level: The maximum permitted concentration of the above mixture is **33.00%** in the finished product for each of the IFRA categories listed above.

The GC-MS composition provided for this product identifies the following principal constituents:

Constituent	Reported %
α -Pinene	22.84
Camphene	21.36
β -Pinene	12.48
Bornyl Acetate	10.98
Myrcene	9.56
3-Carene	6.12
Limonene	4.88
β -Phellandrene	3.76
Terpinolene	2.94
δ -Cadinene	2.11
Germacrene D	1.86
Linalyl Acetate	1.62
Caryophyllene	0.98
Manool	0.58
Humulene	0.54
Abietol	0.37

IFRA Assessment

Black Spruce Essential Oil is a Natural Complex Substance (NCS). Compliance of the finished fragrance or cosmetic product must therefore be assessed according to the applicable IFRA product category and the contribution of constituents subject to an IFRA Standard.

The supplied composition alone does not establish a defensible category-by-category maximum use table for this batch. Therefore, no unsupported IFRA maximum percentages are assigned in this certificate.

Statement of Conformity:

Based on the available composition information, Black Spruce Essential Oil may be used as a fragrance raw material provided that the concentration used in the finished product complies with the applicable IFRA Standards for the intended product category and with any restrictions or specifications applicable to its individual constituents.

EU FRAGRANCE ALLERGEN DECLARATION

This declaration has been prepared with reference to Regulation (EC) No. 1223/2009, Annex III, as amended by Commission Regulation (EU) 2023/1545 concerning fragrance-allergen labeling in cosmetic products.

EU Fragrance Allergen Identified

Based strictly on the composition supplied above:

EU Fragrance Allergen	CAS No.	Concentration in Raw Material
Limonene	138-86-3*	4.88%

The supplied composition identifies Limonene but does not specify its stereoisomer. The generic CAS number is provided as regulatory reference information.

Linalool was not listed in the supplied GC-MS composition, so this report does not assign a Linalool concentration.

EU cosmetic rules require applicable fragrance allergens to be individually declared when their concentration in the finished cosmetic product exceeds 0.001% for leave-on products or 0.01% for rinse-off products. Limonene is included in Annex III and is subject to these labeling thresholds.

Finished-Product Calculation

The allergen concentration contributed by this essential oil is calculated as:

Essential Oil Usage (%) × Allergen in Oil (%) ÷ 100

For example, at 1.00% Black Spruce Essential Oil:

Limonene = $1.00 \times 4.88 \div 100 = 0.0488\%$

Therefore, based on the supplied composition, at a 1.00% use level Limonene would exceed both the 0.001% leave-on and 0.01% rinse-off declaration thresholds and would need to appear in the ingredient declaration where the EU rules apply.

Declaration

Based on the GC-MS composition supplied for this report, the following EU-regulated fragrance allergen has been quantitatively identified:

LIMONENE: 4.88%

The absence of another allergen from this declaration means only that it was not identified/quantified in the composition information provided; it should not be interpreted as an analytical “not detected” result unless supported by the laboratory's detection limits and complete chromatographic identification data.



Disclaimer. The information contained in this report is believed to be accurate and is provided in good faith based on data available at the time of preparation. This report applies solely to the specific material/batch for which the referenced analytical data were supplied and is intended to report or interpret those available results. This document is provided for informational purposes only and does not constitute a warranty, representation, or guarantee of any kind, whether express or implied, including, without limitation, any warranty of merchantability, fitness for a particular purpose, or non-infringement. The purchaser and user are solely responsible for determining the suitability of this product for their intended application and for ensuring compliance with all applicable laws, regulations, IFRA Standards, and industry requirements governing the handling, storage, transportation, use, processing, labeling, and disposal of the product.

Botanic Planet Canada Inc. 2 Bram Court, Unit # 3-4 Brampton, Ontario, L6W 3R6 Canada
Email: info@botanicplanet.ca www.botanicplanet.ca