**Angelica root oil**

**CAS No:** 8015-64-3

**Empirical formula:** N/A

**Structure:** N/A

**Synonyms:**
- Angelica archangelica oil
- Angelica archangelica root oil
- Angelica root oil (Angelica archangelica L.)

<table>
<thead>
<tr>
<th>History</th>
<th>Initial reviews:</th>
<th>June 1975, October 1978, September 2001</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Current revision date:</td>
<td>2015</td>
</tr>
<tr>
<td></td>
<td>Implementation date:</td>
<td>For new submissions*: Not applicable</td>
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<td></td>
<td></td>
<td>For existing fragrance compounds*: Not applicable</td>
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<tr>
<td></td>
<td>Next review date:</td>
<td>2020</td>
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* This date applies to the supply of fragrance compounds (formulas) only, not to the finished products in the marketplace.

**RECOMMENDATION:** RESTRICTED

**RESTRICTIONS:**

**Limits in the finished product:**

<table>
<thead>
<tr>
<th>Skin contact products:</th>
<th>Non skin contact products:</th>
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<tbody>
<tr>
<td>Leave-on products:</td>
<td>0.8%</td>
</tr>
<tr>
<td>Rinse-off products:</td>
<td>No restriction</td>
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<tr>
<td>Including household cleaning products</td>
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</tbody>
</table>

**Note box:**

The Standard is set due to the phototoxic effects of the material. The limit only applies to applications on skin exposed to sunshine, excluding rinse-off products (please refer to Table 4 of the QRA booklet for more detailed information).

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.

Note: See remark on phototoxic ingredients in the Introduction to the IFRA Standards (Appendix 8 to the IFRA Code of Practice) and the Standard on Citrus oil and other furocoumarins-containing essential oils.

**Fragrance material specifications:** N/A

**CONTRIBUTION FROM OTHER SOURCES:**

None to consider (see also the note on contributions from other sources in the Introduction to the IFRA Standards).

**CRITICAL EFFECT:** PHOTOTOXICITY
Two human phototoxicity studies were conducted. In one study, the test material at concentrations of 1% and 5% was applied to the backs of 30 male volunteers for 48 hours, under occlusion. Twenty-three hours after patch removal the sites were irradiated. Observations were made at 72 and 96 hours after application. No phototoxic reactions were observed in any subjects with either 1 or 5% concentrations of the test material (RIFM, 1975a). In a second study, the test material was applied neat to 13 male and female volunteers. Six hours later, the test sites were exposed to UVA radiation. Positive reactions were observed in 5/13 subjects (Kaidbey and Kligman, 1978, 1980).

- 4% on guinea pigs, UVA, photoirritation observed in all animals, 20/20 (Guillot, et al, 1985).
- 100% on hairless mice, UV, photoirritation observed (RIFM, 1974. Forbes, et al, 1977). 0.78, 1.56, 3.125, 6.25, 12.5, 25, 50% on hairless mice. UV. Photoirritation observed at concentrations of 1.56% and higher (RIFM, 1975b).
- 0.375, 0.75, and 1.5% on hairless mice. Photoirritation observed at all concentrations (RIFM, 1987).

The RIFM Expert Panel reviewed the critical effect data for Angelica root oil and has no concerns with the current limit of 0.8% (September 2001).

REFERENCES:


