

## Grapefruit oil expressed

|                  |           |                           |     |
|------------------|-----------|---------------------------|-----|
| <b>CAS N°:</b>   | 8016-20-4 | <b>Empirical formula:</b> | N/A |
|                  |           | <b>Structure :</b>        | N/A |
| <b>Synonyms:</b> | N/A       |                           |     |

|                 |                        |                                    |                |  |
|-----------------|------------------------|------------------------------------|----------------|--|
| <b>History:</b> | Initial reviews:       | June 1992                          |                |  |
|                 | Current revision date: | 2015                               |                |  |
|                 | Implementation date:   | For new submissions*:              | Not applicable |  |
|                 |                        | For existing fragrance compounds*: | Not applicable |  |
|                 | Next review date       | 2020                               |                |  |

\* This date applies to the supply of fragrance compounds (formulas) only, not to the finished products in the marketplace.

### RECOMMENDATION:

**RESTRICTED**

### RESTRICTIONS:

|   |                |  |                |
|---|----------------|--|----------------|
| <b>Limits in the finished product:</b>  |                |  |                |
| <u>Skin contact products:</u>   |                |  |                |
| Leave on products:  | 4%             | Rinse-off products:                          | No Restriction |
|   |                | <i>Including household cleaning products</i> |                |
| <u>Non skin contact products:</u>   | No Restriction |  |                |
| <b>Note box:</b>  |                |  |                |
| <p>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).</p> <p>If combinations of phototoxic fragrance ingredients are used, the use levels have to be reduced accordingly. The sum of the concentrations of all phototoxic fragrance ingredients, expressed in % of their recommended maximum level in the consumer product, shall not exceed 100.</p> <p>Note: See remark on phototoxic ingredients in the <b>Introduction to the IFRA Standards (Appendix 8 to the IFRA Code of Practice)</b> and the <b>Standard on Citrus oil and other furocoumarins-containing essential oils</b>.</p> <p>For qualities of the expressed oil in which the less volatile components have been concentrated by partial or total removal of the terpene fraction, this limit should be reduced in proportion to the degree of concentration.</p> |                |  |                |
| <b>Fragrance material specifications:</b>   | 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**

### REFERENCES:

These recommendations are made in order to promote good manufacturing practice (GMP) considering the large variations in the Bergapten content of commercial samples of grapefruit oil expressed (private communication to IFRA).