

**Boldo oil**

<b>CAS-No.:</b>	8022-81-9 84649-96-7 The scope of this Standard includes, but is not limited to the CAS number(s) indicated above; any other CAS number(s) used to identify this fragrance ingredient should be considered in scope as well.	<b>Molecular formula:</b>	Not applicable.
<b>Synonyms:</b>	Boldo leaf oil (Peumus boldus Mol.) Oil, boldo leaf Peumus boldus oil		

<b>History:</b>	Publication date:	2009 (Amendment 44)	Previous Publications:	Not applicable.
-----------------	-------------------	---------------------	------------------------	-----------------

<b>Implementation dates:</b>	For new submissions*:	August 7, 2009
	For existing fragrance compounds*:	August 7, 2010
	*These dates apply to the supply of fragrance mixtures (formulas) only, not to the finished consumer products in the marketplace.	

<b>RECOMMENDATION:</b>	<b>PROHIBITION</b>
------------------------	--------------------

<b>FRAGRANCE INGREDIENT PROHIBITION:</b>	Boldo oil should not be used as a fragrance ingredient.
------------------------------------------	---------------------------------------------------------

<b>CONTRIBUTIONS FROM OTHER SOURCES:</b>	<b>NONE TO CONSIDER (SEE ALSO THE SECTION ON CONTRIBUTIONS FROM OTHER SOURCES IN CHAPTER 1 OF THE GUIDANCE FOR THE USE OF IFRA STANDARDS)</b>
------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------

**Boldo oil**

<b>INTRINSIC PROPERTY DRIVING RISK MANAGEMENT:</b>	<b>INSUFFICIENT DATA</b>
----------------------------------------------------	--------------------------

**EXPERT PANEL FOR FRAGRANCE SAFETY RATIONALE / CONCLUSION:**

The Expert Panel for Fragrance Safety reviewed all the available data for Boldo oil and recommends not to use Boldo oil as or in fragrance ingredients in any finished product application until additional data is available and considered sufficient to support its safe use.

**REFERENCES:**

The IFRA Standard on Boldo oil is based on at least one of the following publications:

- The RIFM Safety Assessment on Boldo oil if available at the RIFM Safety Assessment Sheet Database: <http://fragrancematerialsafetyresource.elsevier.com>
- Api A.M., Belsito D., Bruze M., Cadby P., Calow P., Dagli M. L., Dekant W., Dent M., Ellis G., Fryer A. D., Fukayama M., Griem P., Hickey C., Kromidas L., Lalko J., Liebler D.C., Miyachi Y., Politano V.T., Renskers K., Ritacco G., Salvito D., Schultz T.W., Sipes I. G., Smith B., Vitale D., Wilcox D.K. (2015). Criteria for the Research Institute for Fragrance Materials, Inc. (RIFM) safety evaluation process for fragrance ingredients. *Food Chem Toxicol.* 2015 Aug;82 Suppl:S1-S19 ([http://fragrancematerialsafetyresource.elsevier.com/sites/default/files/Criteria\\_Document\\_Final.pdf](http://fragrancematerialsafetyresource.elsevier.com/sites/default/files/Criteria_Document_Final.pdf)).
- IDEA project (International Dialogue for the Evaluation of Allergens) Final Report on the QRA2: Skin Sensitisation Quantitative Risk Assessment for Fragrance Ingredients, September 30, 2016 (<http://www.ideaproject.info/uploads/Modules/Documents/qra2-dossier-final--september-2016.pdf>).
- Salvito D.T., Senna R. J., Federle T.W. (2002). A framework for prioritizing fragrance materials for aquatic risk assessment. *Environ Toxicol Chem.* 2002;21:1301-1308 (<https://www.ncbi.nlm.nih.gov/pubmed/12069318>).

Additional information on the application of IFRA Standards is available in the Guidance for the use of IFRA Standards, publicly available at [www.ifrafragrance.org](http://www.ifrafragrance.org).