

Tagetes oil and absolute

CAS N°:	91722-29-1 8016-84-0	Empirical formula:	N/A
		Structure:	N/A
Synonyms:	Tagetes absolute (Tagetes patula L.) Tagetes patula absolute Tagetes patula, ext. Tagetes minuta absolute Tagetes oil		

History:	Initial reviews:	October 1986, April 2001, January 2001		
	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:

Limits in the finished product:			
<u>Skin contact products:</u>			
Leave-on products :	0.01%	Rinse-off products: <i>Including household cleaning products</i>	No restriction
<u>Non-skin contact products:</u>	No restriction		
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).			
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

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RIFM SUMMARIES:

Tagetes oils and absolutes obtained from *Tagetes minuta* L. (syn. *Tagetes glandulifera* Schrank and *Tagetes patula* L.) were evaluated by RIFM (Letizia and Api, 2000). A no effect level for phototoxicity of 0.05% was determined on humans using Egyptian *Tagetes minuta* (RIFM, 1986a).

- At 0.003% in guinea pigs, no observable effects, 0/10 (RIFM, 1985a).
- At 0.01% in guinea pigs, phototoxicity observed, 8/10 (RIFM, 1985b).
- At 100% in mice, phototoxicity was observed, 6/6 (RIFM, 1986b).
- At 1% in mice, phototoxicity was observed, 6/6 (RIFM, 1986c).
- At 0.1% in mice, phototoxicity was observed, 6/6 (RIFM, 1986c).
- At 0.01% in mice, phototoxicity was observed, 2/6 (RIFM, 1986c).

REXPAN RATIONALE / CONCLUSION:

The RIFM Expert Panel reviewed the critical effect data for *Tagetes* oil and absolute and recommended no change to the Standard (September 2001).

REFERENCES:

Letizia C.S. and Api A.M (2000). A dermal safety evaluation of extracts from *Tagetes* plants used in fragrances. *The Toxicologist*, 54(1), 397.

Research Institute for Fragrance Materials, Inc. (1985a). Guinea Pig Phototoxicity Test. Unpublished report from Givaudan. Report number 3361, 17 December.

Research Institute for Fragrance Materials, Inc. (1985b). Guinea Pig Phototoxicity Test. Unpublished report from Givaudan. Report number 3362, 17 December.

Research Institute for Fragrance Materials, Inc. (1986a). Human Photosensitization Test. RIFM report number 1690, 21 November.

Research Institute for Fragrance Materials, Inc. (1986b). Mouse Phototoxicity Test. RIFM report number 3828, 25 June.

Research Institute for Fragrance Materials, Inc. (1986c). Mouse Phototoxicity Test. RIFM report number 4343, 31 July.