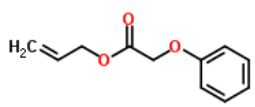


Allyl phenoxyacetate

CAS N°:	7493-74-5	Empirical formula:	C ₁₁ H ₁₂ O ₃
Structure:			
Synonyms:	Acetate PA Acetic acid, phenoxy-, 2-propenyl ester 2-Propenyl phenoxyacetate		

History:	Initial reviews:	New Standard	
	Current revision date:	2009	
	Implementation date:	For new submissions*:	August 7, 2009
		For existing fragrance compounds*:	August 7, 2011
	Next review date	2014	

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

RECOMMENDATION:

RESTRICTED / SPECIFICATION

RESTRICTIONS:

Limits in the finished product:			
Category 1 See Note box (1)	0.02 %	Category 7	0.05 %
Category 2	0.03 %	Category 8	0.70 %
Category 3	0.11 %	Category 9	3.50 %
Category 4	0.32 %	Category 10	2.50 %
Category 5	0.17 %	Category 11	See Note box (2)
Category 6	0.51 %		
Note box:			
<p>(1) IFRA would recommend that any material used to impart perfume or flavour in products intended for human ingestion should consist of ingredients that are in compliance with appropriate regulations for foods and food flavourings in the countries of planned distribution and, where these are lacking, with the recommendations laid down in the Code of Practice of IOFI (International Organisation of the Flavor Industry - www.iofiorg.org)</p> <p>(2) Category 11 includes all non-skin contact or incidental skin contact products. Due to negligible skin contact the concentration of a fragrance ingredient should not exceed the usual concentration of the fragrance compound in the finished product.</p>			
Fragrance material specifications:		<p>Please also refer to the IFRA Standard ALLYL ESTERS.</p> <p>Purity requirement: Allyl esters should only be used when the level of free allyl alcohol in the ester is less than 0.1%. This recommendation is based on the delayed irritant potential of allyl alcohol.</p>	

Allyl phenoxyacetate

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: SENSITIZATION

RIFM SUMMARIES:

LLNA weighted mean EC3 values ($\mu\text{g}/\text{cm}^2$) [no. studies]	Potency Classification Based on Animal Data ²	Human Data			WoE NESIL ³ ($\mu\text{g}/\text{cm}^2$)
		NOEL – HRIPT (induction) ($\mu\text{g}/\text{cm}^2$)	NOEL – HMT (induction) ($\mu\text{g}/\text{cm}^2$)	LOEL ¹ (induction) ($\mu\text{g}/\text{cm}^2$)	
775 [1] ⁴	Moderate	709	690	NA	700

All data in this Table are available from RIFM and are listed in the RIFM Database.
 NOEL = No observed effect level; HRIPT = Human Repeat Insult Patch Test; HMT = Human Maximization Test; LOEL = lowest observed effect level; NA = Not Available.

¹Data derived from HRIPT or HMT.
²Based on animal data using classification defined in ECETOC, Technical Report No. 87, 2003.
³WoE NESIL limited to two significant figures.
⁴EC3 value from one LLNA, not the mean.
⁵LOEL from human maximization test, not a human repeated insult patch test.

REXPAN RATIONALE / CONCLUSION:

The RIFM Expert Panel reviewed the critical effect data for Allyl phenoxyacetate and, based on the weight of evidence, established the No Expected Sensitization Induction Level (NESIL) as 700 mg/cm². They recommend the limits for the 11 different product categories, which are the acceptable use levels of Allyl phenoxyacetate in the various product categories. These were derived from the application of the exposure-based quantitative risk assessment approach for fragrance ingredients, which is detailed in the QRA Expert Group Technical Dossier of June 22, 2006.

REFERENCES:

Food and Cosmetic Toxicology 15, 611-21 (1977)

RIFM (Research Institute for Fragrance Materials, Inc.), 1974a. Maximization study with allyl phenoxyacetate. RIFM report number 1801, April 16. (RIFM, Woodcliff Lake, NJ, USA).

RIFM (Research Institute for Fragrance Materials, Inc.), 1974b. Maximization study with allyl phenoxyacetate. RIFM report number 1779, November 19. (RIFM, Woodcliff Lake, NJ, USA).

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