Peru balsam Extracts and Distillates

CAS N°: 8007-00-9 **Empirical formula:**

Synonyms: Balsam oil, Peru (*Myroxylon pereirae* Klotzsch)
Balsams, Peru
Myroxylon pereirae (Balsam Peru) oil
Myroxylon pereirae (Balsam Peru) resin
Myroxylon pereirae oil
Peru balsam absolute
Peru balsam anhydrol

History:

Initial reviews:	October 1974, December 1991, May 2007 (42nd Amendment)	
Current revision date:	2008	
Implementation date:	For new submissions*:	August 16, 2008
	For existing fragrance compounds*:	August 16, 2010
Next review date:	2013	

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

Standard: **RESTRICTED**

RESTRICTIONS:

Limits in the finished product:
For a description of the categories, refer to the QRA Informational Booklet.

Category 1: See Note box (1)	0.03 %	Category 7:	0.07 %
Category 2:	0.04 %	Category 8:	0.4 %
Category 3:	0.1 %	Category 9:	0.4 %
Category 4:	0.4 %	Category 10:	0.4 %
Category 5:	0.2 %	Category 11: Not Restricted (2)	
Category 6: See Note box (1)	0.7 %		

Note box:
For this material, for pragmatic reasons, restrictive levels allowed by the QRA for certain categories but actually being higher than those already in place before applying the QRA, will temporarily not be implemented until the end of a 5 year monitoring phase. At the end of the 5 years the position will be reevaluated again.

The use of Peru balsam crude is PROHIBITED in a separate Standard.

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(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) http://www.iofiorg.org/.

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(2) Category 11 includes all non-skin contact or incidental skin contact products. Due to the negligible skin contact from these types of products there is no justification for a restriction of the concentration of this fragrance ingredient in the finished product.

Fragrance material specification: N/A

Contribution from other sources: See Annex 1

Critical effect: Sensitization

RIFM Summaries:

Peru balsam - Sensitization Potency Estimation Based on Weight of Evidence

LLNA weighted mean EC3 values (mg/cm^2) [no. studies]	Human Data			Potency Classification[2]	WOE NESIL[3] ($\mu g/cm^2$)
	NOEL – HRIPT (induction) ($\mu g/cm^2$)	NOEL – MAX (induction) ($\mu g/cm^2$)	LOEL[1] (induction) ($\mu g/cm^2$)		
Balsam oil, Peru (Myroxylon pereirae Klotzsch)					
987	950	NA	NA	Moderate	950
Peru balsam absolute					
625	NA	NA	NA	Moderate	950
Peru balsam anhydrol					
NA	NA	NA	NA	Moderate	950

NOEL = No observed effect level; HRIPT = Human Repeat Insult Patch Test; MAX = Human Maximization Test;

LOEL = lowest observed effect level; NA = Not Available.

[1]Data derived from HRIPT or Human Max tests

[2]Gerberick *et al*., 2001

[3]WoE NESIL limited to two significant figures

REXPAN Rationale / Conclusion:

The RIFM Expert Panel reviewed the critical effect data for Peru balsam extracts and distillates and, based on the weight of evidence, established the No Expected Sensitization Induction Level (NESIL) as 950 µg/cm². They recommend the limits for the 11 different product categories, which are the acceptable use levels of Peru balsam extracts and distillates 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:

Gerberick, GF. et. al. (2001) Contact allergenic potency: Correlation of human and local lymph node assay data. American Journal of Contact Dermatitis, 12(3), 156-161.

QRA Expert Group (AM Api, DA Basketter, PA Cadby, M-F Cano, G Ellis, GF Gerberick, P Griem, PM McNamee, CA Ryan and R Safford), Dermal Sensitization Quantitative Risk Assessment (QRA) for Fragrance Ingredients, Technical Dossier, March 15, 2006, http://www.rifm.org/pub/publications.asp.

Peru balsam (myroxylon pereirae klotzch)
RIFM (Research Institute for Fragrance Materials, Inc.), 2004. Local Lymph Node Assay on Peru balsam (Myroxylon pereirae Klotzsch). RIFM report number 44372, February 16

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(RIFM, Woodcliff Lake, NJ, USA).

RIFM (Research Institute for Fragrance Materials, Inc.), 2005. Repeated insult patch test with balsam, Peru (Myroxylon pereirae Klotzsch). RIFM report number 47380, January 20 (RIFM, Woodcliff Lake, NJ, USA).

Peru balsam absolute

RIFM (Research Institute for Fragrance Materials, Inc.), 2004. Local Lymph Node Assay on Peru balsam absolute. RIFM report number 44371, February 16 (RIFM, Woodcliff Lake, NJ, USA).