TRANS-2-HEXENAL

CAS N°: 6728-26-3 **Empirical formula:** $C_6H_{10}O$

Synonyms: **2-Hexenal, (E)-**
Hexen-2-al
Leaf aldehyde
***beta*-Propyl acrolein**

History: Initial reviews: April 1989, June 1992

Current revision date: January 2001

Implementation date: for new submissions*: June 11, 2006**
for existing fragrance compounds*: June 11, 2007**

Next review date: 2006

* 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:

Skin-contact products:

Leave-on products: 0.002%

Rinse-off products: 0.002%
including household cleaning products

Non skin-contact products: 0.02%

Note box:

** The level set for trans-2-Hexenal comprises the fragrance ingredient added as such, as well as contributions from other sources (see Annex I). The list of contributions has been revised (see IL 718). The implementation dates given above are only linked to potential changes resulting from taking those contributions into account.

Fragrance material specification: Not applicable

Contribution from other sources: see Annex 1.

Critical effect: **Sensitization**

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RIFM summaries:

There are three human repeated insult patch tests on this material. These studies used male and female volunteers who were treated with 0.02% and 0.2% of the material in 75%/25% ethanol/diethyl phthalate. No reactions (0/38;0/37) were observed at 0.02% (RIFM, 1989; RIFM,1990), while at 0.2%, 6 of the 25 subjects had reactions indicative of skin sensitization (RIFM, 1990).

Rexpan Rationale / Conclusion:

The RIFM Expert Panel reviewed the critical effect data for trans-2-Hexenal and recommended no change to the Standard (January 2001).

References:

Research Institute for Fragrance Materials, Inc. (1989). Repeated insult patch test of t-2-hexenal in human subjects. RIFM report number 27821, 22 May.

Research Institute for Fragrance Materials, Inc. (1990). Repeated insult patch test of methyl octine carbonate and t-2-hexenal in human subjects. RIFM report number 27822, 09 January.