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*: Not applicable

for existing fragrance compounds*: Not applicable

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:

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.