ALLYL HEPTINE CARBONATE

CAS N°: 73157-43-4 **Empirical formula:** $C_{11}H_{16}O_2$

Synonyms: **Allyl 2-octynoate**
2-Octynoic acid, 2-propenyl ester

History: Initial reviews: April 1989, April 1999

Current revision date: September 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: 0.125%

Note box: This material should not be used in combination with any other 2-alkynoic ester (e.g. methyl heptine carbonate).

In compliance with the outcome of the REXPAN evaluation (September 2001), the permitted non-skin contact level has been increased from 0.02 to 0.125% to follow the general principle of representing the NOEL.

Fragrance material specification: Not applicable

Contribution from other sources: None known

Critical effect: **Sensitization**

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RIFM summaries:

The IFRA Standard of 0.002% (skin-contact level) is based on results of a human repeated insult patch test at 0.125% in ethanol, which resulted in no sensitization responses in 41 subjects (RIFM, 1964a). Two separate human repeated insult patch tests at 0.5 and 1.25% in ethanol resulted in sensitization reactions in 1/41 (RIFM, 1973) and 2/9 (RIFM, 1964b) subjects, respectively.

Rexpan Rationale / Conclusion:

The RIFM Expert Panel reviewed the critical effect data for allyl heptine carbonate and recommended no change to the skin-contact limit and that the non skin-contact limit be changed to 0.125% (September 2001).

References:

Research Institute for Fragrance Materials, Inc. (1964a). Repeated insult patch test of allyl 2-octynoate in human subjects. Unpublished report from IFF Incorporated. Report number 8504, 16 October.

Research Institute for Fragrance Materials, Inc. (1964b). Repeated insult patch test of allyl 2-octynoate in human subjects. Unpublished report from IFF Incorporated. Report number 8504, 28 April.

Research Institute for Fragrance Materials, Inc. (1973). Repeated insult patch test of allyl 2-octynoate in human subjects. Unpublished report from IFF Incorporated. Report number 8500, 24 January.