

## Pinacea derivatives

<b>CAS N°:</b>	N/A	<b>Empirical formula:</b>	N/A
<b>Synonyms:</b>	N/A		

<b>History:</b>	Initial reviews:	May 1976, July 1994		
	Current revision date:	Not applicable		
	Implementation date:	For new submissions*:		Not applicable
		For existing fragrance compounds*:		Not applicable
	Next review date	Not applicable		

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

### RECOMMENDATION:

### SPECIFICATION

### CRITICAL EFFECT:

### SENSITIZATION

### REXPAN RATIONALE / CONCLUSION:

Essential oils (e.g. turpentine oil) and isolates (e.g. delta-3-carene) derived from the *Pinacea* family, including *Pinus* and *Abies* genera, should only be used when the level of peroxides is kept to the lowest practicable level, for instance by adding antioxidants at the time of production. Such products should have a peroxide value of less than 10 millimoles peroxide per liter, determined according to the FMA method, which can be downloaded from the IFRA website (see Analytical Methods).

### REFERENCES:

This recommendation is based on the published literature, mentioning sensitizing properties when containing peroxides (Fd. Cosmet. Toxicol. 11, 1053 (1973); 16, 843 (1978); 16, 853(1978).

This Guideline does not permit the use of colophony.