

## **Commercial Alternatives to Deca BDE**

S.V. Levchik<sup>1</sup> and M. Leifer<sup>2</sup>

<sup>1</sup>ICL-IP America, 430 Saw Mill River Rd., Ardsley, NY, 10502, USA

<sup>2</sup>ICL-IP, P. O. Box 180, Beer Sheva 84101, Israel

One of the widely used by aviation industry flame retardant, Deca BDE was voluntarily removed from the North American market by major flame retardant producers. Now in most applications Deca BDE is being replaced with alternative products having better environmental profile and often better performance. This paper reviews commercially available brominated and halogen-free alternatives for different classes of polymers and various applications. Flame retardant industry favors new polymeric or reactive alternatives to Deca BDE because of their good technical performance and permanency in the polymer matrix.