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PRELIMINARY RESULTS FOR A VINYL ACETATE TEST		
		
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VINYL ACETATE		

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The Society of the  
Plastics Industry, Inc.



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Chemical Information Division  
Office of Toxic Substances  
U.S. Environmental Protection Agency  
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Gentlemen:

We are reporting preliminary results for a vinyl acetate test that have been presented to a committee of the Society of the Plastics Industry, Inc. (SPI) by Hazleton Laboratories U.K. relating to preliminary observation from the terminal sacrifice of a two-year inhalation study in mice. These results are being reported in accordance with the guidance provided by EPA in its March 16, 1978 Federal Register notice relating to the statement of interpretation and enforcement policy regarding notifications of substantial risk, pursuant to section 8e of TSCA.

Groups of 90 CD-1 mice were exposed to concentrations of vinyl acetate of 0, 50, 200 and 600 ppm for six hours a day, five days a week, for two years. The preliminary pathology review reported by Hazleton U.K. has indicated that the only adverse effects observed were in the respiratory tract. Mice exposed to the 600 ppm level exhibited bronchiolar epithelial lesions in the lung which included one animal with one squamous cell nodule of a terminal bronchial airway and another animal with one squamous cell carcinoma in a major airway. No such tumors were observed at the other exposure concerto or in the control animals. The 50 ppm concentration appeared to be a no observable effect level.

As indicated above, the results reported in this letter are preliminary and not all tissues from all the mice in the control or the treatment groups have been reviewed. Hazleton Laboratories expects to complete pathology on the mice within the month and will provide a report to the sponsors of the study shortly thereafter. We will provide the Agency with this report when it becomes available.

The SPI member companies which are primary sponsors of the study are Celanese, E.I. duPont de Nemours, U.S. Industrial Chemicals Company and Union Carbide Corporation. They are also the only U.S. manufacturers of vinyl acetate.

Sincerely yours,

*Hugh Patrick Toner / DB*  
Hugh Patrick Toner  
Director, Technical &  
Regulatory Affairs

HPT:sb

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