



August 22, 2007

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Office of Pollution Prevention and Toxics
U.S. Environmental Protection Agency
1200 Pennsylvania Ave, NW
Washington DC 20460-0001



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Attention: TSCA Section 8(e) Coordinator

RE: Ethylene (or Ethene) CASRN 74-85-1

Dear Sir or Madam:

The Olefins Panel (Panel) of the American Chemistry Council submits this letter on behalf of its members¹ pursuant to Section 8(e) of the Toxic Substances Control Act (TSCA) to inform EPA of new information on ethylene from a 90-day rat inhalation study being sponsored by the Panel. This submission only reports the findings. The Panel has not made a determination as to whether a significant risk of injury to health or the environment is presented by these findings.

The test substance was administered *via* whole body inhalation to groups of 10 male and female F344 rats at target exposure chamber concentrations of 0, 300, 1000, 3000, and 10,000 ppm for 6 hours/day, 5 days/wk during 13 weeks.

Preliminary, unaudited data indicate the following effects:

Histopathological evidence in rat nasal mucosa of a multifocal hyperplasia/hypertrophy of mucous secretory cells (graded very slight to moderate), accompanied by multifocal accumulations of eosinophils (graded very slight to slight), that appears to be treatment-related.

If you have any questions, please contact me at 301 924 2006 or Elizabeth_Moran@americanchemistry.com.

Yours truly,

Elizabeth J. Moran, Ph.D.
Manager, Olefins Panel



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¹ The members of the Olefins Panel that support the ethylene program are: Chevron Phillips Chemical Company, The Dow Chemical Company, Eastman Chemical Company, ExxonMobil Chemical Company, INEOS Olefins & Polymers, NOVA Chemicals Inc, Shell Chemical LP, Sunoco, Inc., Williams Olefins, LLC and TOTAL Petrochemical USA, Inc.

