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June 12, 1995

NON-CONFIDENTIAL INFORMATION

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U. S. Environmental Protection Agency
Office of Pollution Prevention and Toxics (7404)
401 M Street S. W.
Washington, DC 20460
Attention: TSCA 8(e) Coordinator

COMPANY SANITIZED

RE: TSCA 8(e) Submission for Wholly Vaporized Unleaded Gasoline

Dear Sir:

_____ is submitting this notice pursuant to Section 8(e) of the Toxic Substances Control Act (TSCA). This submittal relates to wholly vaporized unleaded gasoline which is a mixture of various refinery streams contained in the TSCA Inventory of Chemical Substances. This generic gasoline is best described by the Chemical Abstract Services Number 86290-81-5.

We are advising the EPA of preliminary findings from research that is partially funded by a grant from the American Petroleum Institute (API). API is a national trade association representing over 300 member companies engaged in all aspects of the petroleum industry. This information came to our attention in several overhead transparencies used by the funded investigators to summarize results from ongoing studies. No written summary of the data was provided at that time. After briefly reviewing the TSCA 8(e) reportability of the verbal report, we obtained written confirmation of the facts presented below.

The TSCA 8(e) submission data are from an inhalation study in female B6C3F1 mice conducted to evaluate the role of hormonal influence on the promotion of liver cell foci induced by diethylnitrosamine. A statistically significant decrease in the relative weights of the ovaries and uteri was found in intact mice exposed to approximately 2000 ppm of wholly vaporized unleaded gasoline for four months (six hours per day, five days per week). This confirmed previously published findings. However in this new study, mice exposed for four months and then held unexposed for one week or one month prior to termination continued to have statistically significant decreases in those organ weights compared to unexposed mice. Data from mice held unexposed for four months has not yet been analyzed. In the mice held unexposed for one week or one month, there was a trend towards return to normal uterine weight. Pre-treatment with diethylnitrosamine did not influence the relative organ weight

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TSCA 8(e) Coordinator

changes caused by inhalation of wholly vaporized gasoline. At this time there is no histopathology data available on these organs nor will the experimental design provide direct evaluation of any functional impairment.

The gasoline sample used in this study was blended by API to meet 1990 Clean Air Act baseline fuel specifications. While this mixture is representative of most non-oxygenated gasolines, the exposure conditions used for this experiment are not likely to occur in most real-world situations. Wholly vaporized gasoline has a significantly different composition than the hydrocarbon vapors released during normal gasoline transfer operations. Monitoring of gasoline distribution workers and self-service customers has demonstrated that their exposures are significantly below the 2000 ppm, six hours per day, five days per week used in this study. The changes required by the Clean Air Act will continue to reduce fuel volatility and therefore reduce human exposure.

We believe that the investigators intend to submit the results of this study for publication in a peer-reviewed journal. After acceptance of the manuscript, we can provide a copy to you if desired. If you have any questions about this submission, please contact

Sincerely,

Best Available Copy