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Haskell Laboratory for Toxicology
and Industrial Medicine
P.O. Box 50, Elkton Road
Newark, Delaware 19714-0050



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DU PONT CENTRAL RESEARCH AND DEVELOPMENT

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November 19, 1993

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Attention: Section 8(e) Coordinator
Office of Pollution Prevention and Toxics
U.S. Environmental Protection Agency
401 M Street SW
Washington, D.C. 20460

REC'D
OFFICE OF POLLUTION
PREVENTION AND TOXICS
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Dear Coordinator:

O-TOLUIDINE
(CAS No. 95-53-4)

This letter is to inform you of the results of an *in vivo* study measuring unscheduled DNA synthesis (UDS) in rat urinary bladder epithelial cells. The test material was administered in the diet to male and female rats at levels of 0, 500, 3000, and 6000 ppm for approximately 14 days. At the end of the feeding period, the animals were sacrificed, and bladder epithelial cells were isolated and incubated in medium containing ³H-thymidine. UDS was evaluated autoradiographically by counting silver grains over the nuclei of the urothelial cells. The percent of cells responding (the percent of cells having a nuclear grain count greater than the grain count in 95% of control cells) was also determined.

When compared to control values, the nuclear grain count of the 6000 ppm-exposed male and female animals was 2.5- and 2-fold greater, respectively, and those increases were statistically significant. The percent of cells responding was also statistically elevated in both sexes. At 3000 ppm, no statistically significant increases in either parameter were observed. Because the results at 3000 ppm were negative, slides from rats of the 500 ppm group were not scored.

Under these experimental conditions, a positive response in an *in vivo* UDS assay would appear to be reportable based upon EPA guidance regarding reportability of such data under TSCA Section 8(e).

Sincerely,

Charles F. Reinhardt

Charles F. Reinhardt, M.D.
Director

CFR:dj
(302) 366-5285

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