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ETHYL CORPORATION
Health and Environment Department

January 15, 1990

Toxicology and
Regulatory Affairs

Ethyl Tower
481 Florida Street
Baton Rouge, LA 70801

CERTIFIED - RETURN RECEIPT REQUESTED
Document Control Officer (TS-790)
Office of Toxic Substances
U.S. EPA
401 M Street, SW
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OTS DOCUMENT RECEIPT OF C.
30 JAN 22 AM 10:22

Attention: Section 8 (e) Coordinator

EPA-OTS
000636332N

Dear Sir:

RE: 8EHQ 1286-0648

This is a follow-up to an 8(e) submission (8EHQ 1286-0648 Ethyl Corporation made in December 1986. Pursuant to the Agency's letter date January 16, 1987, Ethyl Corporation is submitting additional preliminary results of an ongoing two-year feeding bioassay study.

The study is being conducted on diethyltoluene diamine in Sprague Dawley rats. The dose levels are 0, 10, 35, and 70 ppm in the diet. The study is at month 18 of the 24-month in-life phase. Unaudited interim results are as follows:

Mean body weight in males of the 70 ppm group is statistically significantly less than the control mean ($p \leq 0.01$). Mean male body weight in 10 and 35 ppm groups is not significantly different from that of the control mean. Mean food consumption in males of the 70 ppm group is significantly greater than the control mean ($p \leq 0.05$). Mean food consumption in the 10 and 35 ppm groups is not significantly different from that of the control mean.

There are no statistical differences in mean body weight or food consumption between control and treated females of any dose group.

Ocular opacities have been detected on gross observation in 10 eyes of male rats in the 70 ppm group. Ophthalmoscope examination of the affected animals has defined the opacities as cataracts. Unplanned gross collection of urine from male rats affected with ocular opacities revealed elevated urine glucose levels.

The effects being reported here are similar to those seen in our earlier 90-day and 28-day-reversibility studies previously submitted to the Agency.

If you have any questions, please call me at (504) 388-7650.

Sincerely
ETHYL CORPORATION
L. L. Wen
L. L. Wen
Regulatory Affairs Association

LLW:cmc
DETD

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