

BASF Corporation

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February 14, 1996

Document Processing Center (TS-790)
Attention: 8(e) Coordinator
Office of Pollution Prevention and Toxics
U.S. Environmental Protection Agency
401 M Street, SW
Washington, DC 20460

ORIGINAL

OFFICE OF POLLUTION PREVENTION AND TOXICS

Ladies and Gentlemen:

Subject: Tetrahydrofuran (THF) CAS No. 109-99-9 Supplementary Information to EPA Document Control Number 8EHQ-0294-12889; results of a two-generation reproduction toxicity study in Wistar rats.

On February 4, 1994, BASF Corporation submitted the preliminary results of a range finding reproduction study with tetrahydrofuran under Section 8(e) of TSCA. The final report was submitted in accordance with Section 8(d) of TSCA on May 6, 1994.

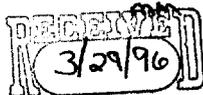
BASF Corporation is now submitting the preliminary results from a follow-up two generation reproduction study in rats, recently received from BASF Aktiengesellschaft, Ludwigshafen, Germany. The study was sponsored by ARCO Chemical, BASF and DuPont.

The results of this two-generation reproduction study indicate that tetrahydrofuran administered to Wistar rats via drinking water at concentrations of 0, 1000, 3000, and 9000 ppm produced no adverse effects on reproductive parameters of the F0 and F1 parental animals. However, clear signs of general toxicity occurred in both parental generations at 9000 ppm and, to a lesser degree, at 3000 ppm. Toxicity was characterized by decrements in food and water consumption and body weights/body weight gains (F0 and F1). Significant increases in absolute and/or relative kidney weights occurred in the F0 parental animals at 9000 ppm. Signs of retarded growth in F1 and F2 pups and some delayed eye opening in F2 pups were observed at 9000 ppm.

The results from this two-generation study are qualitatively the same as those from the original range finding study (retarded pup development), but they occurred at a higher dose level (9000 instead of 8000 ppm). We believe these results are corroborative of those reported earlier from the range finding study. We also believe these results are not indicative of a substantial risk to health or the environment. They do not warrant a reduction in the current workplace safe exposure limits or the implementation of additional exposure controls.

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EPA is being notified of these results in conformance with the Agency's June 1991 guidance regarding the reportability of such data under TSCA Section 8(e). Please note that this submission does not contain any confidential business information.

If you have any questions, please do not hesitate to contact me at (313) 246-6207.

Very truly yours,

BASF Corporation

Handwritten signature of Edward J. Kerfoot in cursive script, followed by a forward slash and the initials 'ds'.

Edward J. Kerfoot, Ph.D.
Director, Toxicology and Product Regulations

cc: ARCO Chemical
DuPont