

DuPont Haskell Laboratory
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DuPont Haskell Laboratory

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8EHQ-0699-13456

June 15, 1999

Via Federal Express

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Attention: 8(e) Coordinator
Office of Pollution Prevention and Toxics
U. S. Environmental Protection Agency
401 M Street SW
Washington, D.C. 20460-0001

pdcn 88950000240
MR 33 494



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Dear 8(e) Coordinator:

CONTAINS NO CD

8EHQ-95-13456
[1,5,9-Cyclododecatriene, CAS # 4904-61-4]

This letter is to inform you of the preliminary results of a recently completed rat inhalation developmental toxicity study with the above-referenced test substance.

Groups of 22 assumed pregnant rats were exposed by inhalation (6 hours/day) over days 6-20 of gestation (days 6-20G) to exposure concentrations of either 0, 10, 25, or 75 ppm. On day 21 of gestation, the rats were euthanized and examined grossly; the uterine contents were examined. The fetuses were weighed, sexed and examined externally, visceraally, and skeletally.

Clear evidence of maternal and developmental toxicity was seen at 75 ppm. There were significant, compound-related reductions in maternal body weight, weight change, and food consumption at this exposure level. Increased wet and stained fur was observed at this level as well. The only evidence of developmental toxicity was a significant reduction in mean fetal weight and a concomitant increase in the incidence of delayed skeletal ossification.

At 25 ppm, there was evidence of maternal toxicity. There were significant, compound-related reductions in maternal body weight, weight change, and food consumption



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at this exposure level. Increased stained fur was observed at this level as well. There was no evidence of developmental toxicity at this level.

At 10 ppm, there was no evidence of maternal or developmental toxicity.

Under the conditions of this study, maternal toxicity was observed at 25 and 75 ppm. The maternal no-observed-effect level (NOEL) was 10 ppm. Developmental toxicity was observed at 75 ppm. The developmental NOEL was 25 ppm. Based on the above, the test substance was not uniquely toxic to the conceptus.

The effects described above are being reported in accordance with the guidance given in the EPA TSCA Section 8(e) Reporting Guide (June 1991).

Sincerely,



A. Michael Kaplan, Ph.D.
Director - Regulatory Affairs

AMK/SMM:ras
(302) 366-5260

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