

MR 7317

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



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8EHQ - 0698 - 14212

DuPont Haskell Laboratory 98 JUN 22 PM 3:44

June 19, 1998

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Via Federal Express

Document Processing Center (7407)
Attention: 8(e) Coordinator
Office of Pollution Prevention and Toxics
U.S. Environmental Protection Agency
401 M Street SW
Washington, D.C. 20460-0001

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8EHQ-98-14212

Dear 8(e) Coordinator:

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Pentanenitrile, 3-amino
(PMN P-91-222)
CAS # 75405-06-0

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This letter is to inform you of the results of a recently completed rat developmental toxicity study with the above referenced test substance. The test substance is subject to consent order DCN-50-910005519.

Solutions of the test substance in water were administered by gavage to groups of 25 time-mated rats over days 6-20 of gestation at daily dose levels of 0, 5, 30, 100, and 300 mg/kg. 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, viscera, and skeletally.

Evidence of maternal and developmental toxicity was seen at 100 and 300 mg/kg. Regarding maternal toxicity, there were compound-related, statistically significant reductions in maternal body weight, weight change, and food consumption. The clinical observation alopecia was significantly increased at these levels as well. There was no evidence of maternal toxicity at 5 or 30 mg/kg. Regarding developmental toxicity, mean fetal weight was significantly reduced at 100 and 300 mg/kg. In addition, at 300 mg/kg, there were significant increases in several skeletal variations consistent with developmental delay. There was no evidence of developmental toxicity at 5 or 30 mg/kg.

Under these experimental conditions, maternal and developmental toxicity were observed at 100 and 300 mg/kg and no evidence of maternal or developmental toxicity was seen at 30 mg/kg or lower.

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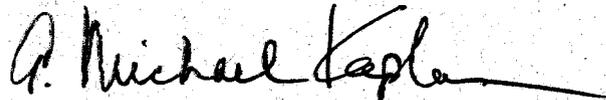


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Although we are reporting these findings because they do appear to meet EPA's criteria for reporting data as outlined in the guidance given in the EPA TSCA 8(e) Reporting Guide (June 1991), the test substance does not appear to be uniquely toxic to the rat conceptus.

Sincerely,

A handwritten signature in black ink that reads "A. Michael Kaplan". The signature is written in a cursive style with a long horizontal flourish at the end.

A. Michael Kaplan, Ph.D.
Manager, Regulatory Affairs

AMK/SMM:jat
Phone: (302) 366-5260

cc: William B. Lee (7405)
Office of Pollution Prevention and Toxics
U.S. Environmental Protection Agency
401 M Street SW
Washington, DC 20460-0001