



DuPont Central Research
and Development

OFFICE OF POLLUTION
PREVENTION AND TOXICS

94 MAR 23 AM 7:48

DuPont Central Research
and Development
Haskell Laboratory for Toxicology
and Industrial Medicine
P.O. Box 50, Elkton Road
Newark, DE 19714-0050
Fax: (302) 366-5207

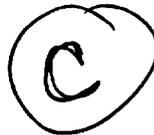
8EHQ-0393-12263

March 21, 1994

Contains No CBI

EXPRESS MAIL - RETURN RECEIPT REQUESTED

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, D. C. 20460



8EHQ-93-12263
SP002 03/24/94

Dear Coordinator:

8EHQ-93-12263

This letter is to inform you of the preliminary results of a 90-day inhalation study in rats and of a cardiac sensitization study in dogs with this test material.

In the 90-day study, rats were exposed by inhalation to concentrations of 0, 500, 2,000 or 3,500 ppm for 6 hours per day, 5 days per week, over a 13-week period. Assessment of motor activity and a functional observational battery were conducted prior to study start, and at 4 weeks, 8 weeks, and 13 weeks on non-exposure days (i.e. weekends, approximately 16-40 hours after the preceding exposure day). Motor activity was significantly lower for 3,500 ppm males and females at the 8-week and 13-week evaluations.

It was previously reported for the range-finding study that seizure-like behavior was observed during the exposure period at concentrations of 2,800 ppm and above. However, recent data from the 90-day study suggests that the seizure-like behavior occurred at concentrations ranging from 1,900-4,600 ppm.

In the cardiac sensitization study, dogs were exposed for approximately 10 minutes to concentrations of 1,000, 5,000, or 10,000 ppm. Seizure-like behavior occurred at 10,000 ppm in a single dog. No additional dogs were tested at this concentration. At 5,000 ppm, 5/6 dogs exhibited shaking and/or rigidity. No seizure-like effects were evident in dogs exposed to 1,000 ppm. Cardiac sensitization did not occur at 1,000 or 5,000 ppm.

Based on EPA guidance (1991) for reporting under TSCA Section 8(e), these results appear to be reportable.



89940000154

Sincerely,

Charles F. Reinhardt

Charles F. Reinhardt, M.D.
Director

CFR/LAM:dij
Phone: (302) 366-5285

