

Contains No CBI

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DuPont Central Research
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(A)

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August 26, 1993

EXPRESS MAIL - RETURN RECEIPT REQUESTED

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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



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OFS DOWNTOWN

Dear Coordinator:

1.1.1.2.2.3.4.5.5.5-Decafluoropentane
[CAS#138495-42-8]

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

In these studies, rats exposed by inhalation to the test material exhibited clinical signs suggestive of central nervous system involvement consisting of seizure-like behavior. The test material contained two diastereomers designated as Isomer A and Isomer B. The clinical signs appeared to occur once a threshold concentration in the exposure chamber had been reached. However, the signs were transient, and were no longer observed several hours (depending on concentration) after their first occurrence even though the animals continued to be exposed to the test material. The seizure-like behavior was not observed after the conclusion of the exposure or prior to a subsequent exposure. However, on subsequent exposure days, the same pattern of seizure-like behavior was observed. The lowest concentration at which seizure-like behavior was observed was approximately 2,800 ppm depending on the isomer ratio in the test material.

Sincerely,

Charles F. Reinhardt

Charles F. Reinhardt, M.D.
Director

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

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11-22-93