

12251-40

From: US112388--VM01
To: US054747--ALLIN1 SETHRE, ARTHUR E.

Date and time 10/05/89 13:06:02

FROM: Roger G. Perkins
Toxicology Services Medical Dept. 220-2E-02 Phone 733-3222
Subject: AMMONIUM PERFLUOROCTANOATE TSCA 8(e) Submission
On October 4, 1989 3M received a copy of a letter sent by DuPont to the 8(e) Coordinator in the Office of Toxic Substances at EPA. The letter summarizes a toxicity study that DuPont has conducted on the subject chemical. 3M is identified as the manufacturer of the chemical. The DuPont study is a follow up on a 3M sponsored two-year feeding study in which a dose-dependent increase in Leydig cell adenomas were observed in male rats that received 30 or 300 ppm of the subject chemical in their diet.

DuPont's study indicates that 14 day exposure to the chemical caused a dose dependent decrease in body and testis weight, with testis weight significantly less for a 50 mg/kg exposed group than for the pair-fed control testis weight. Also a decrease in serum and interstitial testosterone levels was noted, but there was no significant difference between the 50 mg/kg dose animals and the pair-fed control animals. The decrease in serum testosterone level was primarily due to lack of nourishment. The serum estradiol was significantly increased in all exposed male rats. A second phase of the study provided data that supports the hypothesis that the chemical caused decreased serum testosterone levels which in turn resulted in hypersecretion of hormones that lead to the changes in the testis observed in the two-year study.

The DuPont findings support the conclusions stated in the reported 3M two-year feeding study regarding a potential hormonal cause of the Leydig cell lesions.

DuPont indicates that the no-observable effect level, NOEL, in this study for the hormonal alterations is 1 mg/kg. They state that this NOEL is equivalent to an airborne level of 7.0 mg/m3 in the rat.

The ACGIH threshold limit value for the chemical is 0.1 mg/m3 TWA. (This gives a safety factor of 70 based on the DuPont information.)

If there are questions about this information, please contact Frank Griffith or me.

FILE: 12251-40 (FC-143)

cc: US097529--ALLIN1	SORENSEN, STANLEY	US093987--ALLIN1	SUGG, JAMES K.
US036197--USSP01	JOHN M WATERS	US053491--USSP01	Don Ricker
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US080112--ALLIN1	BETTS, DUANE D. MD	US054747--ALLIN1	SETHRE, ARTHUR E.
US064767--USSP01		US270435--ALLIN1	
US109937--USSP01		US258837--ALLIN1	
US269595--VM01	MCNAMARA, MICHAEL	US081749--VM01	FITZGIBBON, MARYLO
US010077--VM01	BAKER, KATHLEEN A	US016486--VM01	EBBENS, KENNETH L
US015917--USSP01		US027601--VM01	WILLARD, PAUL W
US277621--VM01	BUHR, DANIEL J	US088010--USSP01	
US269562--USSP01		US263645--USSP01	
US267333--VM01	DAHMS, J K	US291367--USSP01	
SV032805--USSP01			

END OF NOTE

Regards,
Roger G. Perkins

Exhibit
1360
State of Minnesota v. 3M Co.,
Court File No. 27-CV-10-28862

3M_MN02323182