

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 PERFLUOROOCTANOATE 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         |
| US105996--USSP01     | Jon N Chasman      | US010624--ALLIN1 | ROACH, DONALD E. M |
| US258861--ALLIN1     | LINDAHL, STEPHEN A | US265515--ALLIN1 | ZOBEL, LARRY R.    |
| 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     |                    |                  |                    |

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END OF NOTE

Regards,  
Roger G. Perkins

**Exhibit  
1360**

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

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