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Submitting Organization			
3M CO			
Contractor			
Document Title			
INITIAL SUBMISSION: LETTER FROM 3M CO TO USEPA REPORTING DELAYED NEUROTOXIC EFFECTS AFTER ACUTE INHALATION EXPOSURE TO PERFLUOROBUTANESULFONYL FLUORIDE IN MICE, DATED 7/30/1999			
Chemical Category			
PERFLUOROBUTANESULFONYL FLUORIDE			

A 03

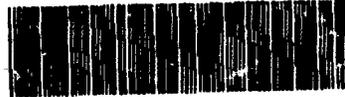
Dr. Charles Reich
Group Vice President

3M Specialty Material
Markets Group

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8EHQ-0899-14523

July 30, 1999



8EHQ-99-14523



CERTIFIED MAIL

Document Processing Center (7407)
Attn: Section 8(e) Coordinator
Office of Toxic Substances
US Environmental Protection Agency
401 M Street, SW
Washington, DC 20460

1999 AUG - 6 AM 11:25
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OPPT/CBIC

Re: TSCA 8(e) SUBSTANTIAL RISK NOTICE ON: Perfluorobutanesulfonyl Fluoride:
CAS#375-72-4

Dear Sir:

3M has conducted a one hour LC50 screening assay on mice and determined that perfluorobutanesulfonyl fluoride causes delayed neurotoxic effects. Mice were exposed to the test material at a concentration of 3000 ppm for 1 hour. Mice appeared normal during exposure. Excessive urination was noted shortly after end of exposure and slight whole-body tremors were noted approximately 1-2 hours after end of exposure. The mice appeared normal the next day. The mouse 1-hour LC50 for this material is >3000 ppm. Though the exact mechanism of action for this toxicity has not been determined, several aliphatic sulfonyl fluorides are known to be acetylcholinesterase inhibitors.

3M uses this chemical as a site limited intermediate with the following industrial hygiene practices: supplied air respiratory protection for potential exposure associated with charging operations, chemical protective clothing with charging and local exhaust ventilation.

Please contact William Weppner, Director of Environmental, Health, Safety and Regulatory Affairs, Specialty Materials Group, 651-733-6374, for further information.

Sincerely,

Dr. Charles Reich

Vice President, 3M Specialty Materials Markets Group

MR 25128

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Contain NO CBI