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INITIAL SUBMISSION: LTR FR [] TO USEPA W/RESLTS OF AN ACUTE INHALATION TOX STUDY OF OXIRANE, 2,2-BIS(TRIFLUOROMETHYL)- IN RATS, DATED 10/09/00 (SANITIZED)		
Chemical Category		
OXIRANE, 2,2-BIS(TRIFLUOROMETHYL)-		

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8EHQ-1000-147905

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2000 OCT 10 AM 11:40

October 9, 2000

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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

MR 40062

2000 OCT 18 AM 10:08

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Company Sanitized

Dear 8(e) Coordinator:

Oxirane, 2,2-bis(trifluoromethyl)-
(CAS No. 31898-68-7)

This letter is to inform you of the results of a recently conducted acute inhalation toxicity study in rats with the R&D substance referenced above.

Rats were exposed to the test vapor at mean concentrations of 200, 600, 820, or 1000 ppm for four hours. The surviving rats were weighed and observed daily over a 14-day recovery period.

All rats died during exposure to 1000 ppm; the 820 ppm concentration was lethal to two of six rats during the exposure. There were no deaths in rats exposed to 600 ppm or 200 ppm of the test substance.

In rats exposed at 600, 820, and 1000 ppm, there was a diminished response to an alerting stimulus in some or all rats at times during the exposures. In addition, ataxia was observed at 600 and 820 ppm during exposures. Labored breathing was observed in rats immediately after the 820 ppm exposure. There was abnormal gait, tremors, and labored breathing observed in the 1000 ppm rats during exposure. The survivors in the 600 ppm exposure appeared to recover from the effects rapidly after the end of the exposure. There were no apparent effects in rats exposed to 200 ppm of the test substance.

Under these experimental conditions, the observations described above are being reported in accordance with the guidance given in the EPA TSCA Section 8(e) Reporting Guide (June 1991).

Sincerely,

8EHQ-00-14790
88010000002

CERTIFICATE OF AUTHENTICITY

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