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February 20, 2008

Via Federal Express

Document Processing Center (Mail Code 7407M)
Room 6428
Attention: 8(e) Coordinator
Office of Pollution Prevention and Toxics
U.S. Environmental Protection Agency
1201 Constitution Ave., NW
Washington, DC 20004



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EPA/CDC

Dear 8(e) Coordinator:

8EHQ-06-16436/8EHQ-06-16478
Perfluorinated Aliphatic Carboxylic Acid, Ammonium Salt

This letter is to inform you of the results of a repeated dose oral toxicity 7-day gavage screening study in mice with the R&D test substance referenced above.

Mice (5 males/group) were dosed by oral gavage with 0 or 30 mg/kg/day of the test substance to evaluate potential subacute toxicity of the test substance when administered by oral gavage to male mice for 7 consecutive days.

Mice were weighed prior to dosing and on day 7 prior to sacrifice. Mice were observed for clinical signs at least once daily on test days 0-7. Tissues were collected at necropsy from all study animals on test day 7 for anatomic pathology evaluation. All tissues were placed in appropriate fixative. Liver, kidneys, heart, brain, spleen, testes, and thymus were weighed. Liver, kidneys, heart, brain, spleen, testes, nose, and thymus were processed to slides and examined microscopically.

The mean body weight of the test animals on test day 7 was 105.4% of control (significant in the 2 sample t-test $p < 0.05$). Statistically significant and test substance-related organ weight changes were limited to the liver, which had approximately 2-fold elevations in all liver weight parameters. Test substance-related microscopic changes were limited to the liver and included the following: minimal single cell necrosis of hepatocytes, moderate hepatocellular hypertrophy, and moderate increases in mitotic figures. These changes occurred in mice administered 30 mg/kg of the test substance and were not seen in the controls. Minimal vacuolation of hepatocytes was present in 1/5 mice treated with 30 mg/kg of the test substance. It is uncertain as to whether this change is test substance related.

Sincerely,



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