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DuPont Haskell Global Centers
for Health and Environmental Sciences
1090 Elkton Road, P.O. Box 50
Newark, DE 19714-0050

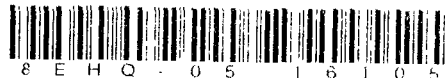
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March 10, 2009

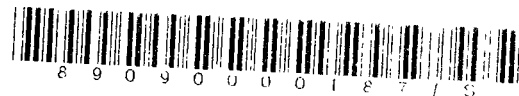
Via Federal Express

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



Dear 8(e) Coordinator:

8EHQ-05-16105
Substituted Thiophene Derivative



This letter is to inform you of the results of an acute inhalation toxicity study in rats with the R&D proprietary mixture containing [] of the above referenced substance.

Groups of male and female rats (5/sex) were exposed, nose-only, to 4.36 or 4.70 mg/L of the test mixture as an aerosol for 4 hours. The 4.70 mg/L level was the maximum aerosol concentration that could be generated. Rats were weighed and observed for clinical signs and after a two-week recovery period the rats were necropsied for gross pathologic evaluation.

No deaths occurred in this study. Clinical observations considered related to treatment were noted at both concentrations. The onset of adverse clinical observations was observed from immediately post completion of exposure to approximately 5 h post exposure for the majority of animals. Observations at 4.36 mg/L included subdued behavior, rolling gait, and piloerection (all signs ending within 5 hours post exposure). In animals exposed at 4.70 mg/L, subdued behavior, rolling gait and piloerection were observed but ended within 4 hours post exposure. At 4.70 mg/L piloerection (1/5 males) and rolling gait (1/5 females) were noted the day after exposure. No body weight effects were observed. At necropsy, 2 males from the 4.36 mg/L group and one male from the 4.70 mg/L group showed pulmonary lobes with dark red foci. The LC50 was greater than 4.70 mg/L.

This information is submitted in accordance with current guidance issued by EPA indicating EPA's interpretation of Section 8(e) of the Toxic Substances Control Act or, where it is not clear that reporting criteria have been met, it is submitted as a precautionary measure and because it is information in which EPA may have an interest.

Sincerely,

A. Michael Kaplan, Ph.D.
Director – Regulatory Affairs

AMK/CC: clp
(302) 366-5260

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