

ORIGINAL

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

June 14, 2010

Via Federal Express

8EHQ-0610-17996A

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:

Acetic acid, mercapto-, 1, 2-ethanediyl ester
CAS # 123-81-9

This letter is to inform you of the results of an acute oral toxicity study in rats with the above referenced test substance.

In an acute oral toxicity study (up-and-down procedure), a single dose of test substance was administered by oral gavage to one fasted female rat at a dose of 17.5 mg/kg, to 3 fasted female rats at a dose of 55 mg/kg, to 2 fasted female rats at a dose of 175 mg/kg, and to one fasted female rat at a dose of 1750 mg/kg. The rats were dosed one at a time. All rats were observed for mortality, body weight effects, and clinical signs for up to 14 days after dosing. The rats were necropsied to detect grossly observable evidence of organ or tissue damage.

Death occurred in one of the rats dosed at 55 mg/kg, in both rats dosed at 175 mg/kg, and in the rat dosed at 1750 mg/kg. Under the conditions of this study, the oral LD₅₀ in female rats is estimated to be 55 mg/kg.

No clinical signs were observed in the rat dosed at 17.5 mg/kg. One of the surviving rats dosed at 55 mg/kg exhibited subdued behavior on the day of dosing. Another surviving rat dosed at 55 mg/kg exhibited clinical signs including prone position, subdued behavior, and piloerection up to 2 days after dosing. The remaining rat dosed at 55 mg/kg exhibited subdued behavior and was found dead on the day after dosing. The 2 rats dosed at 175 mg/kg exhibited salivation and/or subdued behavior on the day of dosing and were found dead on the day after dosing. The rat dosed at 1750 mg/kg exhibited clinical signs including prone position and subdued behavior and was found dead on the day of dosing.

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,

DCN: 88100000325

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



AMK/CC: clp
(302) 366-5260

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