

8EHQ-0310-17870A

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March 19, 2010

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

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EPA
10 MAR 22 AM 11:14

Dear 8(e) Coordinator:

Mixture Containing 1-5% Hydroxylamine (CAS# 7803-49-8); 5-10% Tetramethylammonium hydroxide (CAS# 75-59-2); 70-90% Dimethylsulfoxide (CAS# 67-68-5); and 20-30% Water (CAS# 7732-18-5)

This letter is to inform you of the results of an acute oral toxicity study in rats (up-and-down procedure) with the above referenced test mixture.

A single dose of the test mixture was administered by oral gavage to two fasted female rats at a dose of 175 mg/kg, to four fasted female rats at a dose of 550 mg/kg, and to three fasted female rats at a dose of 1750 mg/kg. The rats were dosed one at a time. The 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 four rats dosed at 550 mg/kg and in all three rats dosed at 1750 mg/kg. No clinical signs were observed in the two rats dosed at 175 mg/kg or in one of the rats dosed at 550 mg/kg. One rat dosed at 550 mg/kg exhibited hypoactivity, hunched posture, and piloerection and died on the day of dosing. Hypoactivity was observed in two surviving rats dosed at 550 mg/kg. The three rats dosed at 1750 mg/kg exhibited hypoactivity and prone posture and died on the day of dosing. Under the conditions of this study, the oral LD₅₀ is estimated to be 550 mg/kg in female rats.

Sincerely,



8EHQ - 10 - 17870

Company Sanitized

MR 325623