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June 7, 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

10 JUN - 8 AM 9:59  
RECEIVED  
EPA/PPPT/MC

Dear 8(e) Coordinator:

Mixture containing Hydroxylamine - 50% (CAS#7803-49-8) [ ]; Monoethanolamine (CAS#141-43-5) [ ]; Glycolic acid (CAS#79-14-1) [ ] and Water (CAS#7732-18-5) [ ]

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

The test mixture was administered by oral gavage to one group of five male and five female Sprague-Dawley rats in a single dose of 2 g/kg of body weight as a Limit Test. Due to 100% mortality, a range-finder was done. The test substance was administered by oral gavage to three rats (two males and one female) in an "up-down" fashion until a non-lethal dose was established (rats were dosed with 0.5, 1.5, or 1.0 g/kg, respectively). Death occurred on the day of dosing in one female dosed at 1.5 g/kg and in one male dosed at 1.0 g/kg. Clinical signs observed in the range-finding rats included cyanosis (0.5 g/kg); cyanosis, hyperactivity, convulsions, and hypoactivity (1.5 g/kg); and cyanosis, hyperactivity, and unresponsiveness (1.0 g/kg). Hydroxylamine has been reported to cause cyanosis<sup>1</sup>.

After determining the non-lethal dose to be 0.5 g/kg, the test substance was administered by oral gavage to two additional groups of five male and five female Sprague-Dawley rats per group in a single dose of 0.5 or 0.75 g/kg. Death occurred on the day of dosing in all rats dosed at 2.0 g/kg; no clinical signs were observed in these rats. Two male and two female rats dosed at 0.75 g/kg died on the day of dosing. Rats dosed at 0.75 g/kg exhibited hypoactivity (5 surviving rats), cyanosis (all surviving rats), coma (1 surviving rat), and slight tremors (1 surviving rat) only on the day of dosing. No deaths occurred in rats dosed with 0.5 g/kg. Rats dosed at 0.5 g/kg exhibited hypoactivity (6 rats), cyanosis (all), hunched posture (1 rat), and convulsions (1 rat) only on the day of dosing. Under the conditions of this study, the oral LD<sub>50</sub> of the test mixture was 0.94 g/kg with 95% confidence limits of 0.46 to 1.9 g/kg.

Sincerely,

<sup>1</sup> R.E. Gosselin et al., *Clinical Toxicology of Commercial Products*, Williams & Wilkins, 5th Edition, 1984

8EHQ-0610-17969A  
DCN: 8810000298s



COMPANY SANITIZER

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