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April 26, 2012

Via Federal Express

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Attention: 8(e) Coordinator  
Office of Pollution Prevention and Toxics  
U.S. Environmental Protection Agency  
1201 Constitution Ave., NW  
Washington, DC 20004



Dear 8(e) Coordinator:

para-Toluidine  
CAS No. 106-49-0

This letter is to inform you of the results of a micronucleus study with the above referenced test substance.

The objective of this in vivo assay was to evaluate the ability of the test substance to induce micronuclei in bone marrow polychromatic erythrocytes of CrI:CD-1 @ (ICR) BR mice. In an initial dose selection study, six animals (three males and three females) were dosed with intraperitoneal injection of 50.0, 163, 275, 388, and 500 mg/kg. The animals were observed for clinical signs of toxicity and/or mortality three days after dosing. Clinical signs of toxicity including hypoactivity, hunched posture, tremors, ataxia and dyspnea were observed at all dose levels and mortalities occurred at all doses above 163 mg/kg. In the micronucleus assay, ten animals (five males and five females)/group/harvest time point were dosed with intraperitoneal injection of 43.75, 87.50 and 175.0 mg/kg. The animals dosed with the vehicle control and positive control were euthanized approximately 24 hours after dosing for extraction of the bone marrow. The animals dosed with the test substance were euthanized approximately 24, 48 and 72 hours after dosing for extraction of the bone marrow. Clinical signs of toxicity including hypoactivity, hunched posture and dyspnea were observed at all dose levels and significant mortalities occurred in the 175.0 mg/kg groups. The test substance did not induce a significant increase in micronuclei in bone marrow polychromatic erythrocytes and was considered negative in the mouse bone marrow micronucleus test under the conditions of exposure in this assay.

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,

S. Satheesh Anand, Ph.D., DABT  
Senior Research Toxicologist



SSA/MD: jhh  
(302) 366-5314

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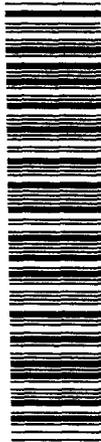
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