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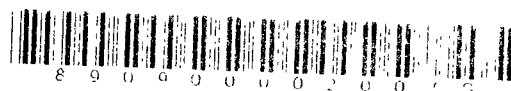
Via Federal Express

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-09-17369
Carboxylic Acid



This letter is to inform you of the results of a recently conducted acute toxicity study in green algae with the test substance referenced above.

The toxicity of the test substance to the green algae, *Pseudokirchneriella subcapitata*, was determined in a 72-hour, static toxicity test. The study was conducted with a synthetic algal-assay-procedure (AAP) nutrient medium blank control and 4 concentrations of the test substance at a mean lighting intensity of 7081 lux (range of 6380 to 7550 lux), a mean temperature of 23.7°C (range of 23.6 to 23.7°C), and a shaking speed of 101 rpm. Three replicates were used for the blank control and two replicates were used per test concentration each with an initial cell count (density) of 10,000 cells/mL. Based on visual observations, the blank control and 0.1, 1.0, and 10 mg/L test concentration solutions were clear and colorless with no visible precipitate at test start. The 100 mg/L test concentration solution was clear and colorless with undissolved test material at test start. All environmental parameters were within acceptable limits during the exposure.

Exposure of algae to mean, measured concentrations of 0.116, 1.10, 8.30, and 105 mg/L of the test substance resulted in -25, -16, 4, and 65% inhibition, respectively, based on healthy cell count compared to the blank control at the end of 72 hours. Inhibition of growth rate based on growth rate was -4, -3, 1, and 20%, respectively. (Negative values of inhibition indicate stimulation of growth.)

Healthy cell counts increased in the blank control by at least a factor of 16 in 72 hours, thereby satisfying the appropriate test acceptance criteria. Mean measured test substance concentrations were used to calculate the 72-hour EC₅₀ values. The 72-hour LOEC and NOEC values, based on mean, measured concentrations and percent inhibition of cell count were 105 and 8.30 mg/L, respectively. The 72-hour LOEC and NOEC values, based on mean, measured concentrations and percent inhibition of growth rate were greater than 105 mg/L and 105 mg/L, respectively. The 72-hour EC₅₀ values, based on mean measured concentration, for inhibition of healthy cell count and inhibition of growth rate were 47.9 mg/L and greater than 105 mg/L, respectively.

Sincerely,

Company Sanitized

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