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DOCUMENT DESCRIPTION	DOCUMENT CONTROL NUMBER	DATE RECEIVED
8FHQ-09-17763	89100000179	4/5/10

COMMENTS: 8EFU

**DOES NOT CONTAIN CBI**



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

April 2, 2010



Via Federal Express

Document Processing Center (Mail Code 7407M)  
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Attention: 8(e) Coordinator  
Office of Pollution Prevention and Toxics  
U.S. Environmental Protection Agency, ICC Building  
1201 Constitution Ave., NW  
Washington, DC 20004

RECEIVED  
EPC  
10 APR -5 AM 10:19

Dear 8(e) Coordinator:

8EHQ-09-17763

This letter is to inform you of the results of an aquatic toxicity study with the above referenced test substance.

The toxicity of the test substance to the aquatic macrophyte, *Vallisneria americana* (*V. americana*), under static conditions was determined in a 10-day exposure test followed by a 10-day recovery phase. The study was conducted with six concentrations of the test substance, a dilution water control, and an abiotic control at a temperature of  $24 \pm 2^\circ\text{C}$ . Seven replicates with 3 plants per replicate were initiated for each test substance concentration and the dilution water (freshwater reconstituted for hardness) control. Each 4-liter test chamber (replicate) contained 6 cm of sediment, planted with 3 plants with shoot lengths approximately 10 cm each. A single test vessel containing no *V. americana* or soil was initiated at the highest test concentration for the abiotic stability control.

Nominal exposure concentrations of the test substance were 0.084, 0.26, 0.82, 2.6, 8.0, and 25 mg/L. Mean measured concentrations ranged from 92 to 95% of nominal concentration. The mean, measured concentration of the 25 mg/L abiotic control was 24 mg/L.

After 10 days, the mean shoot length among control plants was 25.8 cm, an increase of 2.6 times from day 0. Mean shoot lengths among treated plants ranged from 8.3 to 10.5 cm at test termination. Mean shoot dry weight among plants exposed to the blank control following 10 days of exposure was 0.1629 g, an increase of 4.7 times from day 0. Mean shoot dry weights among treated plants ranged from 0.0556 to 0.1040 g at test termination. Following 10 days of recovery from exposure to the test substance, mean shoot length among plants exposed to the blank control was 30.8 cm. Mean shoot lengths among treated plants following 10-day recovery period ranged from 4.1 to 9.8 cm, generally decreasing as concentration increased. Mean shoot dry weight among plants exposed to the blank control following 10 days recovery was 0.2281 g, corresponding to an increase of 40% compared to the control at exposure termination (i.e., 0.1629 g). Mean shoot dry weights among treated plants ranged from 0.0116 to 0.1118 g. The 10-day  $\text{EC}_{50}$  value was determined to be 5.0 mg/L, with 95% confidence intervals of 1.9 to 9.1 mg/L. For this study, recovery was not clearly indicated in any of the treatments.

**CONTAINS NO CBI**

MIR 325969

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,

A handwritten signature in cursive script that reads "A. Michael Kaplan".

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

AMK/SEL: clp  
(302) 366-5260

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