

ORIGINAL

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| DOCUMENT DESCRIPTION | DOCUMENT CONTROL NUMBER | DATE RECEIVED |
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| 8EHQ-93-12263 | 89100000225 | 5/25/10 |

COMMENTS:

DOES NOT CONTAIN CBI



DuPont Haskell Global Centers
for Health and Environmental Sciences
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Newark, DE 19714-0050

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May 24, 2010

Via Federal Express

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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



8EHQ-0510-12263C
DCN: 89100000225

Dear 8(e) Coordinator:



8EHQ-93-12263
Pentane, 1,1,1,2,2,3,4,5,5,5-decafluoro-
138495-42-8

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

Acute Toxicity in Zebra Fish:

The acute toxicity of the test substance to *Brachydanio rerio* (zebra fish) was reported from a static-renewal (24 hr renewal period) in a 96-hour test at nominal concentrations of 0 (water control), 0 (solvent control 0.1 mL Tertiary Butyl Alcohol/L dilution water), 5.6, 10, 18, 32, and 56 mg/L. The 96-hour LC50 was found to be 13 mg/L and the 96-hour NOEC was 10 mg/L.

Chronic Toxicity in *Daphnia magna*:

A semi-static, 21-day reproduction test in *Daphnia magna* was performed at mean measured concentrations of 0, 0.648, 1.72, 4.19, 9.1, and 21.8 mg/L. The average number of juveniles per parent in the control group was 98 after 21 days. The reproductive output was statistically significantly reduced only at the mean measured concentration of 4.19 mg/L when compared to control. No juveniles were produced at concentrations of 9.10 and 21.8 mg/L as adult mortality was 100% at these concentrations. In the control as well as mean measured concentrations of 0.648 and 4.19 mg/L all daphnids survived until the end of the study. Related to the total number of produced juveniles (dead + alive) the percentage of stillborn juveniles and aborted eggs was $\leq 4\%$ at the mean measured concentrations 0.648, 1.72 mg/L, and control. Only at the mean measured concentration of 4.19 mg/L was there a noticeable increase (13%) in stillborn juveniles and aborted eggs. No males and ephippia (winter eggs) occurred in control or test groups. The dry body weight and total length of the parent daphnids in the test concentrations were comparable to the control group. The mean dry body weight at the tested levels ranged from 0.89 to 1.13 mg per daphnid. The mean dry body weight in the control was 1.31 mg per daphnid. The mean total body length for control daphnids was 5.40 mm and, for tested concentrations, in the range of 4.85 to 5.40 mm.

The EC50 for adult mortality after 21 days was calculated to be 6.17 mg/L. The Lowest Observed Effect Concentration (LOEC) and the No Observed Effect Concentration (NOEC) based on reproductive output were, respectively, 4.19 and 1.72 mg/L.

CONTAINS NO CBI

327142

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/RAH: clp
(302) 366-5260

100

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- FedEx 1Day Freight
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