

ORIGINAL

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COMMENTS:

DOES NOT CONTAIN CBI



326541

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

April 28, 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



8EHQ-0410-17919A



DCN: 88100000248

10 APR 29 AM 11:09

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Dear 8(e) Coordinator:

p-Phenylenediamine
CAS # 106-50-3

This letter is to inform you of the results of several aquatic toxicity studies with the above referenced test substance. DuPont became aware of these studies through REACH SIEF activity. These studies were sponsored by the Japanese Ministry of the Environment and conducted at the Japan Food Research Laboratories – Tama Laboratory.

Acute Algae Study:

A 72-hour algal growth inhibition test was conducted on the test substance at concentrations of 0.0, 0.010, 0.022, 0.046, 0.10, 0.22, 0.46, 1.0, 2.2 and 4.6 mg/L. Cell biomass and growth rates were determined. The inhibitory concentration by comparison of the area under the growth curve (biomass): the 50% growth inhibitory concentration EC50 (0-72) was 0.33 mg/L and the maximum no-effect concentration NOEC (0-72) was 0.046 mg/L. The inhibitory concentration by comparison of growth rate: the 50% growth inhibitory concentration EC50 (24-72) was 3.2mg/L and the maximum no-effect concentration NOEC (24-72) was 1.0 mg/L.

Acute *Daphnia magna* Study:

An acute, semi-static test was conducted at concentrations of 0, 0.12, 0.18, 0.26, 0.38, 0.54, 0.82, and 1.22 mg/L (measured) on *Daphnia magna*. Exposure for 48 hours resulted in 0, 0, 5, 35, 45, 100, 100 and 100% immobility, respectively. Based on the measured concentration the EC50 was 0.33 mg/L.

Chronic *Daphnia magna* Study:

A 21-day, semi-static test was conducted at concentrations of 0.0, 0.014, 0.025, 0.043, 0.072, 0.115, 0.177 and 0.286 mg/L (measured) on *Daphnia magna*. The following results on reproduction and toxicity were obtained: the 50 % inhibition of reproduction concentration (EC50) was 0.12 mg/L or more; the highest no-effect concentration (NOEC) was 0.043 mg/L; the lowest observed effect concentration (LOEC) was 0.072 mg/L; and the 50% mortality concentration (LC50) was 0.14 mg/L.

Acute Fish Study:

An acute, semi-static test was conducted at concentrations of 0, 0.043, 0.055, 0.080, 0.112, 0.143, 0.188, 0.271, 0.372 and 0.483 mg/L (measured) on *Oryzias latipes*. Exposure after 96 hours resulted in 0, 0, 0, 100, 100, 100, 100, 100, 100 and 100% mortality, respectively. Based on the measured concentration the LC50 was 0.066 mg/L. The highest 0% mortality concentration and lowest 100% mortality concentration after 96 hours occurred at 0.055 and 0.080 mg/L, respectively.

CONTAINS NO CBI

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". The signature is written in black ink and includes a long horizontal flourish at the end.

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

AMK/BPS: clp
(302) 366-5260



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4a Express Package Service

* To most locations

Packages up to 150 lbs.

FedEx Priority Overnight
Next business morning ** Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected

FedEx Standard Overnight
Next business afternoon * Saturday Delivery NOT available

FedEx First Overnight
Earliest next business morning delivery to select locations * Saturday Delivery NOT available

FedEx 2Day
Second business day * Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected

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4b Express Freight Service

** To most locations

Packages over 150 lbs.

FedEx 1Day Freight
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FedEx 1Day Freight Booking No

FedEx 2Day Freight
Second business day ** Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected

FedEx 3Day Freight
Third business day ** Saturday Delivery NOT available

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FedEx Pak*
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FedEx Box

FedEx Tube

Other

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SATURDAY Delivery
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No Signature Required
Package may be left without obtaining a signature for delivery

Direct Signature
Someone at recipient's address may sign for delivery. **Fee applies.**

Indirect Signature
If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only. **Fee applies.**

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No

Yes
As per attached Shipper's Declaration

Yes
Shipper's Declaration not required

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Cargo Aircraft Only

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