

TSCA NON-CONFIDENTIAL BUSINESS INFORMATION

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DuPont Haskell Global Centers  
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1090 Elkton Road, P.O. Box 50  
Newark, DE 19714-0050

October 30, 2009

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:

Methacrylamide  
79-39-0

This letter is to inform you of the results of two pre-1977 (1956) oral toxicity studies in rats (an acute and subacute) which we recently became aware of with the test substance referenced above.

Oral Acute Toxicity Study:

The test substance, in distilled water was administered by gavage to male albino rats from Charles River Breeding Lab at dose levels of 5000, 3400, 2250, 1500, 1000, 670 or 130 mg/kg of body. All surviving rats were weighed and observed for clinical signs for 10-11 days post dosing.

The rat dosed at 5000 mg/kg showed marked discomfort, weakness, incoordination, dragging self around, marked salivation and was found dead the day after dosing. At 3400 mg/kg, the rat was uncomfortable, weak, marked salivation and was found dead the day after dosing. At 2250 mg/kg, uncomfortable, nervous, weak in the hind quarters, marked salivation and was found dead 2 days after dosing.

The rats dosed at 1500 mg/kg and below initially lost weight and then began to gain weight, were sacrificed on the 10<sup>th</sup> or 11<sup>th</sup> day after dosing.

Oral Subacute Toxicity Study:

The test substance, in distilled water was administered by gavage to 6 male albino rats from Charles River Breeding Lab at a dose level of 450 mg/kg of body for 10 days over a two week period. After the 10<sup>th</sup> dose, 3 rats were sacrificed for gross pathological assessment and the remaining 3 rats were sacrificed after a 10 day observation period.

There were no deaths during the study. All rats lost weight during the 1<sup>st</sup> week and became increasingly nervous. On the 6<sup>th</sup> day of dosing, one rat was not treated because it had generalized tremors throughout the body. These same tremors, though not as severe were also evident in one other rat. All the rats were nervous and irritable. On the 9<sup>th</sup> day of dosing, two rats were most severely affected had difficulty in maintaining their balance and showed unsteady gait. On the 10<sup>th</sup> day of dosing, 3 rats showed tremors, circling, chewing on tail, lack of balance, and spasms appearing to originate in the hind quarters. The other 3 rats were nervous and irritable but did not show the other symptoms. Gross pathology showed one rat with mottled lungs and another rat with atelectasis in the lungs. The 4 other rats had no gross pathological findings.

**CONTAINS NO CB!**

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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 black ink that reads "A. Michael Kaplan" followed by a horizontal line.

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

AMK: clp  
(302) 366-5260