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Eastman Chemical Company
P. O. Box 1994
Kingsport, Tennessee 37662

EASTMAN

8EHQ-0196-13095

ORIGINAL

January 17, 1996



8EHQ-94-13095
SP002 01/31/96

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Attn: 8(e) Coordinator

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Reference: 8EHQ-94-13095, 8(e)1195-13095

Subject: Supplemental information on toxicity of 2,3-dihydrofuran, relevant to that of 2,5-dihydrofuran

Dear Madam or Sir:

This information is supplied *for your information* only and is not believed to correspond to a reportable finding under TSCA Section 8(e).

Due to the neurological effects observed during a one-week probe and four-week inhalation toxicity study in rats exposed to 2,5-dihydrofuran, a one-week probe was performed to determine what effects the 2,3-dihydrofuran isomer may cause.

Male and female Sprague-Dawley rats were exposed to vapor concentrations of 0, 500, 1250, 2000, or 3700 ppm of 2,3-dihydrofuran for five consecutive days. No mortality occurred during the study. Clinical signs associated with exposure to the test substance consisted of a concentration-dependant reduced level of general activity in all tests groups during exposure. All animals appeared normal immediately before and after each exposure. Mean body weight was reduced for the 3700 ppm group for the first three days of exposure, but was comparable to the control group thereafter. Based on the lack of an effect on body weight gain at 2000 ppm, this concentration was considered to be a no-adverse-effect level. Based on slightly reduced activity during exposure at 500 ppm, a no-effect level was not determined.

In conclusion, exposure to 2,3-dihydrofuran did not appear to cause similar neurological effects as those seen in rats exposed to 2,5-dihydrofuran, as reported in earlier notices 8EHQ-94-13095 and 8(e) 1195-13095.



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If additional information concerning this study is required, please contact W. Mills Dyer, Jr., M.D., of my staff. His telephone number is (423)229-3538.

Sincerely yours,

Lynda W. Popwell

Lynda W. Popwell
Vice President
Health, Safety and Environment and Quality

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