



8EHQ-0801-14994

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The Dow Chemical Company
Midland, Michigan 4867

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August 10, 2001

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CONTAINS NO CONFIDENTIAL BUSINESS INFORMATION

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Office of Toxic Substances
U.S. Environmental Protection Agency
Ariel Rios Building
1200 Pennsylvania Ave. N.W.
Washington, D.C. 20460
Attn: 8(e) Coordinator



8EHQ-01-14994

Re: Ethene, CASRN 74-85-1

Dear Sir/Madam:

The following information is being submitted by The Dow Chemical Company (Dow) pursuant to current guidance issued by EPA indicating EPA's interpretation of Section 8(e) of the Toxic Substance Control Act. Dow has made no determination as to whether a significant risk of injury to health or the environment is actually presented by the findings.

Preliminary summary results from the third phase of the Alberta Ethylene Crop Research Project, a joint study by Alberta Environment and industry participants involving controlled exposures to the subject chemical and mathematical evaluations of responses to ethylene, indicate barley yields were reduced when plants were exposed to 50 ppb ethylene for 3 days or to 5 intermittent exposures of 250 ppb with up to 5 days between exposures; and reductions in yield of field pea were observed when plants were exposed to ethylene at concentrations above 100 ppb for 16 days with the comment that complete recovery of field pea yield was observed after treatment.

Exposure of barley plants to an ethylene pattern derived from ambient air monitoring data from the worst month of exposure seen at a petrochemical facility in Alberta over a three year period had no significant effect on yield.

No written report is yet available.

Sincerely,

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Contain NO CBI

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