



DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE
PUBLIC HEALTH SERVICE
CENTER FOR DISEASE CONTROL

NATIONAL INSTITUTE FOR OCCUPATIONAL
SAFETY AND HEALTH
U.S. POST OFFICE AND COURTHOUSE
CINCINNATI, OHIO 45202

February 14, 1975

Dr. Lawrence H. Ballou
Medical Director
Firestone Tire and Rubber Company
Akron, Ohio 44317

Dear Dr. Ballou:

In answer to your questions, I can cite a 1974 experiment by Maltoni (experiment BT5)* in which two groups of 30 female Sprague-Dawley rats were treated with 6000 and 10,000 ppm vinyl chloride monomer respectively for 4 hours daily between the 12th and 18th day of pregnancy (i.e. for only one week). Both the adult animals and their offspring were followed for 75 weeks. As of August 1974 no tumors developed in the adults but 2 subcutaneous angiosarcomas developed in a total of 86 offspring: one developed in a 24 week old male whose mother was exposed to 10,000 ppm for 1 week, and the other developed in a 22 week old female whose mother was exposed to 6000 ppm for 1 week. These results, though not conclusive, do suggest that vinyl chloride does have a transplacental effect, and that fetuses may be more sensitive to it than are adults.

Therefore I would agree that women of child bearing age should not be exposed to vinyl chloride.

Sincerely,

Joseph S. Mallov, M.D.

Joseph S. Mallov, M.D.
Division of Field Studies and
Clinical Investigations

*Reference: Maltoni, Cesare and Lefemine, Giuseppe, "Carcinogenicity Bio-Assays of Vinyl Chloride: Current Results" Aug.31,1974.

cc:
J.Stender
P.Falk
J.Wagoner
H.Blejer

OCC 0741

Firestone

INTEROFFICE

TO MR. F. A. WAHL
EQUAL EMPL. OPPORTUNITY

DATE FEBRUARY 19, 1975

FROM DR. L. H. BALLOU

REFERRING TO LETTER OF

SUBJECT

Attached is some correspondence relative to a problem that may come up between opposing views of EEOC and OSHA.

Rather than write a full blown explanation to you, I will let you read these attachments -- then ask your opinion because I want to give Pottstown and Perryville a consensus of Akron's thinking.

LHB:pk
Attach.

MEDICAL DIRECTOR

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