



INTER-OFFICE CORRESPONDENCE

To: H. C. Twiehaus

Date: June 23, 1978

From: F. C. Dehn

Location: 10 West

Subject: Vinylidene Chloride
Carcinogenicity

RECEIVED

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*H. L. Longmy
G. J. Brennan
R. L. Lynch*

I received a telephone call this afternoon, June 23, from Dr. Jessie Norris of Dow with respect to a report she received from Dow Europe. BASF forwarded to them a draft report from Dr. Thamatas of IARC. IARC is the International Agency for the Research of Cancer which is located in Lyons, France, and supported financially by ten sovereign governments, one of which is the United States. They function under the auspices of the World Health Organization. In test work done by Dr. Thamatas, he fed mice vinylidene chloride at a dose rate of 70 milligrams/kilogram of body weight in olive oil one day a week for 120 weeks. After this long period of time, 19 male and 18 female mice still survived. In the case of the rats, a dose of 150 milligrams/kilogram was fed under a similar protocol.

There was a definite increase, statistically valid, of hepatocellular carcinomas in the mice. In the rats, a different form of cancer on the cover of the brain was formed in significant numbers with respect to controls. This is probably a further contributing factor toward NIOSH's proposed TWA of 0.1 ppm for vinylidene.

These are high dose levels which Dow felt were sufficient to overcome any detoxification levels or normal metabolic immune systems; however, the facts remain it did on ingestion cause cancer in two species.

I will attempt to get more definitive information in writing.

F. C. Dehn

zak

cc: Z. G. Bell
B. C. Brennan
W. R. Harris
G. J. Lazarchik
W. J. Peard✓