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January 7, 1964

Mr. W. D. Spore
Shenango Ceramics, Inc.
P. O. Box 180
New Castle, Pennsylvania 16103

Dear Mr. Spore:

As indicated in Mr. Compton's letter of December 31 to you, I have been asked to forward an opinion as to the possible toxicity hazards in using Arochlor 1262 in a linseed oil base printing medium.

As your original letter indicated, you are aware that care should be exercised in handling all of the Arochlors when these materials are used at elevated temperatures. The hazard of inhalation of Arochlor vapors decreases with the lower vapor pressure of the more highly chlorinated compounds in this series. Thus the possibility of volatilization or release of vapors into the atmosphere when Arochlor 1262 is heated is less than when Arochlor 1232 or 1242 is heated to the same temperature.

The fact remains that I would not recommend the use of Arochlor 1262 at temperatures above 150-160°F without the provision of exhaust ventilation to remove any vapors that might be released. Certainly the glazing and firing operation at a temperature of 2050°F must be done in an oven that has to be ventilated to the outdoors. I would imagine that this would be desirable not only from the standpoint of the control of Arochlor vapors but also from the standpoint of the removal of odors and other decomposition products.

I cannot emphasize too strongly that ventilation control to prevent inhalation is mandatory. One company using a formulation containing an Arochlor for forming and binding inorganic materials has experienced the development of chloracne in a number of workers where adequate mechanical exhaust ventilation was not supplied.

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If I can be of any further assistance, please do not hesitate to let me know.

Very truly yours,

R. Ernest Kelly, M.D.
Medical Director

REK:mjb

cc. Colby Dill
Allegheny Solvents & Chemical Co.
P.O. Box 477
Carnegie, Pa.

J. F. Compton - Monsanto, Gen. Offices
H. J. Seppala - Monsanto, Gen. Offices

Note to J. F. Compton only: In the instance of difficulty referred to above, Monsanto is being sued for $350,000. If you have an opportunity, it might be well to drop by to see Mr. Spore to insure that we do not get into trouble again.

REK

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