Monsanto INDUSTRIAL CHEMICA CO.

JA. 2 1975

FROM (NAME & LOCATION): J. P. Mieure - T2F

DATE: December 31, 1974

SUBJECT: CHLORINATED DIBENZOFURANS IN AROCLOR

REFERENCE: *JPM Memo to WBP, 12/3/74*

TO: W. B. Papageorge
B2SK

CC: M. W. Dietrich - T2B
E. M. Emery - T2D
R. E. Keller - T1B
R. H. Munch - T1B
W. R. Richard - T3A
E. S. Tucker - R3B

As indicated in the reference memo reporting my telephone conversation with John Roach of FDA, Dr. Roach agreed to send me a copy of his presentation at the October 1974 AOAC Meeting. Today, I received this manuscript, a copy of which is attached. Also enclosed was the attached letter from the division director of FDA, posing several questions to Monsanto. I am soliciting your guidance for the proper response to his letter.

The first two quesions are analytical in nature. I have checked with Ed Emery and Scott Tucker, and apparently we have never analyzed for dibenzofuran in biphenyl. However, GC work carried out in 1971 by Emery and Gasser revealed seven unidentified but quantifiable impurities in Anniston biphenyl in addition to six impurities of known identity. We could readily use this technique to monitor biphenyl for traces of dibenzofuran. In answer to the second question, we have never attempted to analyze Aroclor for chlorohydroxybiphenyls. A thorough study would take several man days of method development. The question about forming dibenzofuran with base could best be answered by one of Bill Richard's people or, if unknown, by a collaborative Specialty Products/Applied Sciences experiment.

The method used by FDA to detect chlorodibenzofurans in PCBs is relatively straightforward and could be duplicated in our laboratories after installation of our new mass spectrometer.

At your request, we can undertake experimental work to confirm chlorodibenzofurans in Aroclor and/or to determine possible sources. Also, please advise if you want me to take any action on the letter from Jelinek.

J. P. Mieure

db
Attach.

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