MCB. Cars with W. B. Papageorge
bcc: W. B. Papageorge
E. P. Wheeler
W R. Richard
J. T. Garrett
M. W. Farrar
E. S. Tucker

Monsanto
COMPANY

ORGANIC CHEMICALS DIVISION

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St. Louis, Missouri 63177
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June 4, 1970

Dr. A. F. Tabri, Chemist
Chemistry Unit
Department of the Interior
Federal Water Pollution Control Administration
5555 Ridge Avenue
Cincinnati, Ohio 45213

Dear Dr. Tabri:

My apologies for not answering your letter of May 20 sooner. I have just recently returned from Europe and I am now finally catching up on my correspondence.

With reference to your question about solubility, we have the following information. We find that the solubility of our Aroclor 1242, 1248 and 1254 products is less than 300 ppb in water at 25°C. A rough order of magnitude for each is 50 ppb for Aroclor 1254, 100 ppb for Aroclor 1248 and 200 ppb for Aroclor 1242. We have biodegradability studies underway on the degradation of our Aroclor products. Two techniques have been employed to date; semi-continuous activated sludge and river water die-away. Early results indicate that a major number of the 2 chlorine and the 3 chlorine isomers degrade under these conditions. We hope to have a more complete picture on the polychlorinated biphenyl at higher chlorine levels in the not too distant future.

Your questions about toxicity and other additional information has been brought to the attention of Messrs. W. B. Papageorge and E. P. Wheeler of Monsanto for their comments. You can expect to receive an additional reply on these points.

We have no known isomer components available for analytical purposes at this time. For your information, we recently provided a few isomers on a "first come" basis to Dr. Dustman at the Department of the Interior, Laurel, Maryland. Unfortunately, our extremely small supply has been depleted. We assume that you have our product grade Aroclor materials and, if not, we will be happy to provide you with a set. Please let us know if we can be of further assistance.

Sincerely,

MONS 090664

Robert E. Keller, Manager
Applied Sciences Section

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