

Monsanto

FROM (NAME & LOCATION) E. S. Tucker - Technology Department - Applied Sciences Section

DATE : February 12, 1971

CC:

SUBJECT : PCBs IN CHICKEN FEED

REFERENCE :

TO : W. B. Papageorge

→ R. E. Keller
W. R. Richard
E. P. Wheeler
J. T. Garrett
W. S. Clark

As you know we recently requested a chicken egg extract sample from Agway, Inc., prepared in their laboratories, containing enough apparent PCB's for absolute identification by GC/Mass. The sample arrived late Friday and was analyzed Monday morning.

The results of the GC/Mass analysis reconfirmed the data we reported earlier. The extract contained observable amounts of tri-, tetra-, and penta chloro biphenyls with dominant amounts of the tri- and tetra homologs.

I passed this information on to Dr. Rice - Agway this morning. While talking with him he indicated that the only PCB's they had so far observed were in "bakery meal", a component (10%) of the chicken feed they manufacture, at the 0.1-0.2 ppm level. He felt that the level and type of PCB's found would not account for that being observed in the chickens and eggs.

W. Clark called shortly after that regarding a similar situation involving chickens and a request for PCB methodology and standards by a Cecil Shirey of Eastern Research Associates who are being asked to look for PCB's in "bakery meal" manufactured and sold by Rozansky Feeds of Laurel, Del.

I called Cecil Shirey and indicated that we would send Aroclor standards and copies of our methodology. Shirey told me that "bakery meal" is manufactured by grinding out dated (stale) bread and cracker type products (wrappers and all!) purchased from the manufacturers to whom they are returned by the retailers.

The above facts combined with our conclusions that indicated that an Aroclor 1242 - Aroclor 1248 type product was responsible for the PCB's found in the Agway samples have lead us to suspect re-used - - - paper as a potential source.

I would suggest that we first obtain samples of the bakery meal to verify our thoughts and secondly that we some how determine if for some reason, intentional or otherwise, Rosansky bakery meal contains unusual amounts of PCB's causing only a "localized" problem.

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If it turns out that the situation is not localized, we should obviously try to warn other manufacturers to remove the wrappers, etc. before processing stale bakery products for feed.

E. S. Tucker

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