

~~State~~ *Hyman*

Dibenzofuran

MAR 1 1976

bcc: G. Roush
J. P. Hleure
~~W. W. Withers~~
R. G. Potter
W. C. Hammann

March 1, 1976

Dr. James R. Allen, D.V.M.
Dept. of Pathology
University of Wisconsin
Madison, Wisconsin 53706

Dear Dr. Allen:

In response to your request for the analysis of chlorodibenzofurans in polychlorinated biphenyls this analysis is the method originally developed by Vos et al (Food Cosmet. Toxicol. 8, 625 (1970)). We have attempted to use this and other methods to measure chlorodibenzofurans in PCB's. Our experiments have included repeated analyses of PCB's to which known amounts of chlorodibenzofurans have been added. We have achieved incomplete and variable recoveries because of incomplete separation of the dibenzofurans from the PCB's, especially for di-, tri-, and tetrachlorodibenzofurans. Bowes et al (Nature 255, 305 (1975)) also observed incomplete separation of lower chlorodibenzofurans from PCB's. Until a more accurate and reproducible procedure is available, we are unable to obtain reliable information on the chlorodibenzofuran content of PCB mixtures.

Therefore, we are returning the samples obtained from you without testing the same since it is our opinion any results would be inconclusive.

Sincerely,

J. Coleman Weber
Manager, Product Acceptability
Specialty Chemicals Division

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