Monsanto INDUSTRIAL CHEMICALS CO.

FROM E. M. Emery - T3E

DATE July 18, 1973

SUBJECT DOW/MONOCHLOROBIPHENYL

TO W. R. Richard
T3A

cc R. E. Keller - T1B
D. R. Cova - T3C
J. P. Mieure - T2B
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At your request Jim Mieure and I talked by telephone on 7-16-73 with Ken Hodges at Dow. Ken is now involved with the analytical work on the phenylphenol project. Most of the past work has been done by Harold Gill, who is out of town until mid-August.

Ken stated that until now most of their emphasis has been on finished goods, but they now recognize the need to improve their analytical technology on the monochlorobiphenyl raw material. They were presently working on resolving the discrepancy concerning the dichlorobiphenyl content. They are using conventional packed columns for their gas chromatography work and were looking beyond the monochlorobiphenyl peaks for the additional dichlorobiphenyl. We pointed out that their columns would not resolve the 2,2'-dichlorobiphenyl from the 3-chlorobiphenyl. We gave him the high resolution capillary column conditions needed to resolve these two peaks. He accepted this explanation for why they have missed the 2,2'-isomer and thanked us for redirecting their method development efforts. They now want to go back to the bench and improve their analytical technology based on the information that we have given them. At that time then they will be ready to present their results to us in writing and to propose exchange of both finished goods and raw material samples for analysis.

Ken commented that like us they have also observed some 25 or so high boiling peaks beyond the 4,4'-dichlorobiphenyl at levels of <1 ppm each, but their very sensitive GC/MS work indicates that these are <u>not</u> PCB's.

E. M. Emery

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