Monsanto

FROM (NAME & LOCATION) R. H. Munch - Organic/Technology - South Second Street

DATE : August 20, 1971

SUBJECT : CONTROL OF AROCLOR 1016 DISTILLATION

REFERENCE :

TO : H. J. Horner
WGK

CC:
R. Blowers - WGK
G. A. Hippe- JFQ
B. McCutchan
A. Leisy - WGK
D: Armstrong - WGK
S. Drexler - WGK

Sam Drexler has suggested the possibility of using infrared analysis instead of gas chromatography for control of the subject distillation and has submitted a $1900 work proposal to investigate this method.

For several reasons, I do not think this would be a worthwhile project.

1) The G.C. method separates the penta and higher components and gives a direct measure of these components.

2) For that reason the Aroclor 1016 specification has been based on the G.C. method.

3) An I.R. method would be indrect and complicated.

4) The G.C. method should require only 10-15 minutes to complete. It is doubtful if an I.R. method would be any more rapid.

5) Greater speed would not be particularly helpful in this case because the batch cycle is about 60 hours.

6) As presently visualized, very few analyses will be required because the control will be by volume distilled, keeping the distillation conditions constant from one distillation to the next.

Ralph H. Munch

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