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March 22, 1960

Mr. Elmer P. Wheeler
Assistant Director, Medical Department
MONSANTO CHEMICAL COMPANY
800 North Lindbergh Boulevard
St. Louis 66, Missouri

Dear Elmer:

Subject: Air Sampling - Pydraul AC

Freeland Chew has recently inquired about sampling methods and analysis for this material.

In the past we have sampled for the chlorinated diphenyl vapor with two impingers in series using amyl acetate as a collecting medium and lab analysis either by the butanone method or by the method described by Elkins. We have also tried collection on filter paper, where we felt that mist was present, extracted the sample with alcohol, saponified with KOH and precipitated with $AgNO_3$, reading results on the spectrophotometer.

The drawback to these methods is that such a large sample volume is required that the field sampling time is very long. We have every reason to believe that it would be possible to utilize UV analysis.

If you could send us a sample of the material, we could check the UV emission and very possibly increase greatly over the sensitivity of the present methods which require about 600 to 1000 liters of air per sample.

We would welcome any comments you may have on the problem of the best sampling-analytical methods.

Naturally, we will be very glad to obtain samples and analyze them, in accordance with your request, but if you want to go ahead and send us some samples in the interim, we will be glad to analyze these also.

There is one point about which I'm rather curious. Do you anticipate this to be a problem of vapor alone or might you also expect some liquid particles or mist?

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At any rate, we will be glad to colleborate in any way. What is the time table on this matter? If it is urgent, we can sample by the existing methods. If not, perhaps we ought to do some preliminary work. Please advise so we can plan our activities.

Sincerely yours,

W. R. LaRocque, Supervisor
Industrial Hygiene Field Service

WRLaR:1

Hope to see you in Kalamazoo