

St. Louis, Mo.

April 8, 1953

L. H. Morill

Research 2

Aroclor-Lindane Formulations

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The evaluation of Aroclor-Lindane mixtures was discussed this morning and a tentative program has been agreed upon.

The first step will be to run laboratory trials against insects at Creve Coeur to establish the direction of further investigations.

The three formulations which we would like to ask you to have prepared for preliminary work are outlined. It is planned to apply these as water emulsions and to use xylene as the solvent, and Emulsifier L for emulsification. A stable emulsion is of more concern here than a slight excess of emulsifier. We made up a small quantity using these additives and they appeared to work reasonably well. In order to avoid any volatilization of the active ingredients it would be desirable to dissolve the lindane and Aroclor in the xylene rather than to fuse them, at least for these tests.

We would like to have the same proportion of ingredients in each formulation regardless of whether this is required. Since Aroclor 5460 has the lowest solubility in most organic solvents it is suggested that you might start with this material. After adding the required amount of xylene and other components will you add just enough more xylene to bring the weight of the formulation to an even figure where we can quickly calculate dilutions of lindane. It would be desirable to prepare as high concentrations of lindane-Aroclor as possible and still maintain a viscosity that can be handled with a pipette, even though we will of course make dilutions on a weight basis. The percentage of active ingredient in the formulation is of no great concern at the moment and will depend on what you find feasible.

Samples of 50-75 grams of formulation will be adequate.

- #1. Aroclor 5460 and lindane 1-1 ratio
Xylene
Emulsifier L
- #2. Aroclor 1254
Same as #1
- #3. Aroclor 1248
Same as #1

DSW 197453

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Arrangements have already been made to have shipped from Nitro a quantity of each of these Aroclors, and I believe you have some high analysis lindane. Will you ask Fred Hacker to send these Anniston shipments over to you as soon as they arrive?

Philip P. Wallace

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