Monsanto

FROM (NAME & LOCATION): R. E. Hatton-St. Louis-B2SD

DATE: July 22, 1976

SUBJECT: 2,2'-Dichlorodiphenyl Ether

REFERENCE:

cc: W. Duffey-ElSA
Q. E. Thompson-T3E
f-Diel.,Cap.

file 1. Maxwell Lab Capacitor
2.

TO: David Wood

I recommend that we inform Paul Benignus the following:

1. We presently have no 2,2'-dichlorodiphenyl ether available. The material made in the Pilot Plant in 1971 has apparently been discarded.

2. This liquid was essentially non-biodegradable and, therefore, no effort was made to promote it. Only acute toxicity screening has been done - doesn't look too bad. Its dielectric constant is around 9.5 at 100°C.(60 cylce).

3. General Electric patent, U. S. 3,025,440 issued March 13, 1962, covers capacitors and electrical devices containing this compound as the liquid dielectric.

4. Monsanto patent, U.S., 3,072,728 issued Jan. 8, 1963, claims a method for preparing the compound.

5. I can see no reason for Monsanto to pursue this subject at this time by making or supplying samples.

One point for our own thinking; if we wish to pursue the capacitor application Paul was describing, Quentin Thompson's comment that a better product would be 3,4-dichlorodiphenyl methane. This material has a dielectric constant of about 6.8 and is biodegradeable. Costs would be relatively high.

Comments please.

Roger

R. E. Hatton

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