Monsanto

FROM (LOCATION) J. H. Gannon - Everett

DATE November 10, 1970

SUBJECT W. R. GRACE & COMPANY
AROCLOR REPLACEMENT PROGRAM

REFERENCE

TO ~~Mr. W. S. Clark~~
~~St. Louis~~

cc: Mr. J. J. McNamara - Everett
Mr. E. H. Fording - New York
Mr. L. J. Berlik - Chicago

WRG's Construction Products Division used Aroclor 1254 in polysulfide caulks and sealants and in SBR latex coatings. For polysulfides, they are testing a 60/40 blend of Aroclor 5460/Santicizer 261. In coatings, Aroclor 6070 is the primary candidate. Their current supply of Aroclor 1254 will be depleted late in 1971.

Several questions were raised by WRG on my recent call to their headquarters in Cambridge, Mass.

1. For labtesting they have been mixing their own blends. They have noticed changes in viscosity of both blends (Aroclor 5460/Santicizer 261 and Aroclor 6070) after mixing. We need some answers from you:

   a. After blends are made at Anniston, will the Aroclor 5460 come out of solution and possibly recrystallize due to temperature changes?

   b. Will these blends increase in viscosity over a period of time with temperature held constant? In other words, is there a resin solvation effect of Santicizer 261 or Aroclor 1221 on Aroclor 5460 analogous to the effects Santicizer 160 has on plastisol viscosity build-up?

   c. Will it be necessary to heat these blends to a given temperature prior to compounding to insure standard viscosity?

2. WRG will want to buy Aroclor 6070 cut by 10% Xylene preblended by Monsanto. Annual requirements will be 70-90M lbs. for plants in N. Bergen, New Jersey and Chicago, Illinois.

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3. I would like some feedback from you concerning approaches other polysulfide sealant compounders have taken to replace Aroclor 1254. Which blends or plasticizers are having the greatest success?

WRG's annual requirements for Aroclor 1254 have been in the 250M lb. range. We must be prepared to supply them both Aroclor 6070/10% Xylene and Aroclor 5460/Santicizer 261 blends by mid-1971 when their Aroclor 1254 inventory runs out.

I will appreciate your reply in the near future.

Best regards.

J. H. Gannon

JHG:mf

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