From **MONSANTO CHEMICAL COMPANY**

At Monsanto, Illinois

Date 4/15/53

To Mr. John B. Trotter Reference

At Main Office
St. Louis

Subject Dept. A-246 - Process

Pyranol - 80% 1254, 20% TCB
Blend for Line Material Company

cc
Messrs:
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This memo advises analysis of pilot batches of an 80% Aroclor 1254, 20% Trichlorobenzene(TCB) blend which were made to forecast expected properties of plant scale batches. Four blends were made using combinations of the highest and lowest specific gravity Aroclor 1254 and TCB which were available in our reserve lot samples. Batches were made on the basis of 2800 parts by volume of Aroclor 1254 to 800 parts by volume of TCB (both at standard reporting temperatures). Results of the test batches are reported below. Results of plant batches should lie somewhere within the extremes for each property noted. A copy of the laboratory report is attached for your information.

Batch No.	1	2	3	4
Sp. Gr. Aroclor 1254-65°C	1.495	1.505	1.505	1.495
Sp. Gr. TCB - 15.5°C	1.465	1.468	1.465	1.468
Viscosity at 100°F. SUS	87.6	97.4	94.9	89.7
Sp. Gr. at 15.5°C.	1.527	1.536	1.535	1.528
Appearance	Yellow Visc Liq.	Yellow Visc Liq.	Yellow Visc Liq.	Yellow Visc Liq.
Color, APHA	45	55	55	70
Turbidity	None	None	None	None
Residue	None	None	None	None
Acid No. Mg KOH	0.002	<0.001	0.002	0.002
Pour Point	-20°C.	-18°C.	-24°C.	-16°C.
N_D^{25}	1.6223	1.6231	1.6228	1.6225
Resistivity at 100°C	800×10^9	6700×10^9	1750×10^9	500×10^9
D.C. at 100°C	4.49	4.23	4.28	4.28
H_2O	0.0035%	0.0030%	0.0025%	0.0025%
Inorganic Chlorides	<0.000010%	<0.000010%	<0.000010%	<0.000010%
Distillation				
1st Drop	218°C	218°C	219°C	220°C
Below 270°C	15%	16%	16%	17%
90%	379°C	381°C	382°C	379°C
Corrosion Test:	None	None	None	None
Condition	Clear	Clear	Clear	Clear
Color APHA	55	65	55	80
Acid No.	0.003	0.002	0.003	0.004
Ing. Chlorides	0.000010%	<0.000010%	<0.000010%	<0.000010%

DSW 550813

The above analyses should be used only as a rough guide for expected properties of plant scale blends and should not be used as a basis for any specifications--tentative or permanent. Specifications should be made up only after a series of plant batches have been made and evaluated statistically.

J. Neff
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