Elmer P. Wheeler, Medical Department

January 29, 1970

Status of Arcolor Toxicological Studies

J. S. Barrett, London
H. S. Bergen, MBERG
W. B. Papageorge, WPAPA

D. S. Cameron
Brussels

Enclosed is a copy of the reports from our consulting laboratory indicating the status of the animal toxicity studies. I have summarized the pertinent findings separately and as indicated in the table.

We have given copies of these data to one U. S. customer, the U. S. FDA and one or two other state agencies. I don't see why this information cannot be released with discretion in Britain or Europe.

Our interpretation is that the PCB's are exhibiting a greater degree of toxicity in this chronic study than we had anticipated. Secondly, although there are variations depending on species of animals, the PCB's are about the same as DDT in mammals.

We have additional interim data which will perhaps be more discouraging. We are repeating some of the experiments to confirm or deny the earlier findings and are not distributing the early results at this time.

Elmer P. Wheeler

EPW:ju

Enclosure

MONS 099835

January 15, 1970

SUMMARY

STATUS OF AROCLOR STUDIES

AT INDUSTRIAL BIO-TEST

Aroclor 1242

2 year rat at 1, 10 and 100 ppm:

At 90 days--possible liver enlargement. Males at 100 ppm. Histology O.K. Others O.K. Blood, urine.

2 year dog at 1, 10 and 100 ppm:

At 6 months--O.K. body weight, food consumption, reactions, mortality, hematology, blood chemistry and urine.

3 generation rat reproduction at 1, 10 and 100 ppm:

100 ppm--effect on survival--difficult to obtain pups for maturing and mating, egg production.

Aroclor 1254

2 year rat at 1, 10 and 100 ppm:

At 90 days possible liver enlargement in males at 100 ppm. Histology O.K. Other levels O.K.

2 year dog at 1, 10 and 100 ppm:

At six months body weight effected at 100 ppm. Possibly less food consumption? Other levels O.K. Same parameters as 1242.

3 generation rat study at 1, 10 and 100 ppm:

100 ppm--effect on survival same as 1242.

Aroclor 1260

2 year rat at 1, 10 and 100 ppm:

At 90 days--possible liver enlargement in males and females at 100 ppm. Other levels O.K.

2 year dogs at 1, 10 and 100 ppm:

At six months, body weight effect at 100 ppm, possibly at 10 ppm. One male and one female died--refused to eat. No other obvious reason for fatalities by gross examination.

3 generation rat study at 1, 10 and 100 ppm:

No adverse effects.

	1242	1254	1260
2-year rat chronic			
At 1, 10, 100 ppm Status 90 days	100 ppm Liver enl. Males 10 ppm O.K.	100 ppm Liver enl. Males 10 ppm O.K.	100 ppm Liver enl. M&F 10 ppm O.K.
2-year dog chronic			
Status--6 months	100 ppm O.K.	100 ppm Body wt. dec. 10 ppm O.K.	100 ppm 1M-1F died refused food-- no other gross abn. 10 ppm possible body wt. effect
3 generation rat reproduction	100 ppm effects survival 10 ppm O.K.	100 ppm effects survival 10 ppm O.K.	100 ppm O.K.