Monsanto

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SUMMARY--INTERIM STATUS

CHRONIC TOXICITY WITH AROCLORS

In June of 1971 two-year feeding studies were completed with *Aroclors 1242, 1254, and 1260. The materials were fed to rats and dogs at levels of 1, 10, and 100 parts per million in the diet.

After 24 months there were no clinical effects observed in the rats in the Aroclor 1242 study. Animals sacrificed at 6, 12, and 24 months showed negative micropathology. There were no clinical effects in the dogs and blood and urine chemistry studies at all intervals were negative.

In the case of Aroclor 1254, rats sacrificed at 6, 12, and 24 months showed increased liver weights in males of the animals on the 100 ppm diet. Micropathology was negative at all levels at 6 and 12 months. In the dogs there have been depressed weight gains in the females at all levels fed and at the 100 ppm level in the males. Blood and urine chemistry was negative.

With Aroclor 1260 there was increased liver and kidney weights in male rats at the 100 ppm level in the animals sacrificed at 12 months and 24 months. Micropathology was negative at 12 months. In the dogs there was depressed weight gains in the females at 10 and 100 ppm and in the males at 100 ppm. Twelve month clinical determinations revealed a moderate increase in serum alkaline phosphatase in five of six animals on the 100 ppm diet.

The above data indicate that these materials are no more and possibly less toxic than DDT in rats and dogs. This is reassuring in that DDT is probably the least toxic insecticide to mammalian species. Further, there is general agreement that DDT has not presented a hazard in animals or man in spite of its presence in the environment.

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Interim or progress reports such as above have been provided periodically to the U. S. Food and Drug Administration, the U. S. Department of Agriculture and other governmental agencies.

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* Aroclors 1242, 1254, and 1260 are polychlorinated biphenyls containing 42%, 54%, and 60% of chlorine respectively.

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