Monsanto

FROM (NAME & LOCATION) W. R. Richard - Research Center

DATE February 17, 1971

cc: R. E. Keller
S. Tucker

- S.2ndSt
S.2nd

SUBJECT LORSCHEIDER
UNIVERSITY OF CALGARY, CANADA

REFERENCE DDT & PCB

TO : W. B. Papageorge - WPAPA

Dr. Fritz Lorscheider (University of Calgary, Canada), telephone number 403-284-6528, is studying Aroclor 1221 and Aroclor 1242 along with insecticides DDT and others in rats and may possibly go to sheep.

He asked about using hexane as a solvent in GLC work. He apparently extracts tissue with acetonitrile and partitions PCB into hexane. He complained that the Aroclors were too slow in coming through his column. He is using a Bendix 2500 with flame ionization detector hooked to some kind of data integrator. He reportedly is running at 400°C. (I asked him twice whether it wasn't 400°F.). He is saying the DDT comes out first. Scott Tucker says the guy is wrong.

Acetonitrile not quantitative, DDT should come out after 1221 and 1242, 400°C. way too hot.

The man is studying the endocrinology of PCB and pesticides effect on the thyroid, pituitary, reproductive hormones and has had a big non-reproductive effect by feeding Cohoe salmon to rats at 10 ppm DDT and under. He says the compounds used in holding lamprey population down in the Great Lakes have a drastic effect on the liver function of fish and birds.

I don't know whether we want to dig any further into his analytical procedures or not. Talked with Scott Tucker briefly. Will review with you.

WR

W. R. Richard

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