July 20, 1970

Mr. J.J. McGlade
Quaker Chemical Co.
Conshohocken, Pennsylvania 19428

Dear Mr. McGlade:

Our Mr. R. Small has requested that we send you the acute toxicity screening and other data that we have on Aroclor 5460, 1221 and 1254. These data are as follows:

Aroclor 5460

Acute Oral LD_{50} - Rat - 33.3% solution in corn oil - 19,200 mg/kg. Classed as practically non-toxic.

Minimal Lethal Dose - Rabbit - Intact Clipped Skin - 33.3% solution in corn oil - >7940 mg/kg. Classed as practically non-toxic.

20 Day Dermal - Rabbit - Daily application - 100 mg/kg - no adverse effect - 250 mg/kg - LD_{50}

21 Day Chick Edema - Doses of 50, 200, or 400 ppm - no adverse effects

90 Day Subacute - Rats - 100 ppm regarded as no effect level - 500 ppm questionable effect - no effect level - 1000 ppm questionable effect - no effect level

Chicken Toxicity Study - Doses of 500, 1000 and 2000 ppm. At 500 ppm level egg production and egg weight comparable to control but hatchability was lower than controls. Hatchability severely depressed at higher dose levels. There were no gross pathologic findings.

Aroclor 1221

Acute Oral LD_{50} - Rat - Undiluted - 3980 mg/kg. Classed as slightly toxic.

Acute Minimal Lethal dose - Rabbit Skin Intact Clipped - >2000<3160 mg/kg. Classed as slightly toxic.

20 Day Dermal - Rabbit - 12.5% corn oil solution - Daily application
Dose levels 150, 250, and 500 mg/kg/day
150 mg/kg - no adverse effect

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250 mg/kg - LD_{50}
No significant gross or microscopic pathologic tissue alterations noted among surviving test animals which were sacrificed.

[redacted]

Acute Oral LD_{50} - Rats - Undiluted - 11,900 mg/kg. Classed practically non-toxic

Acute Minimal Lethal Dose - Rabbits - Intact Skin - Undiluted >1200 < 2000 mg/kg. Classed mildly toxic.

[redacted] - Rabbits - 4% corn oil solution - Daily application
Dose levels 10, 50, 100, and 200 mg/kg.
10 mg/kg - no adverse effects
50 and 100 mg/kg - liver discoloration macroscopically
Microscopic examination revealed moderate hepatic necrosis.
All other tissues comparable to the controls.
200 mg/kg - animals succumbed before any significant local skin reactions.

Local skin reactions, i.e. scaling, wrinkling, and fissuring seen in all animals receiving 10, 50, and 100 mg/kg.

I trust this is the information that you seek.

Sincerely,

William H. Hunt, Ph.D.
Toxicologist
Medical Department

WHH/ebv
cc; W. Clark
R. Brell - Wilmington