MONSANTO PCB ACTIONS

1. Phase-out of PCB sales worldwide in all applications except Dielectrics.

2. Conversion of Dielectric Fluids to less biodegradable PCBs.

LESS BIODEGRADABLE PCB

Based on data presented:

- Less biodegradable PCB defined as Pentachloro- and higher PCB
- Pentachloro- and higher PCB determined by specific GLC/MS Test Method
- Pentachloro- and higher PCB are not totally non-biodegradable.

MONSANTO PCB SALES IN U.S.A.

(Million Pounds)

	Dielectrics	All Others	Total
1969	37.0	30.0	67.0
1970	40.5	33.5	74.0
1972 (Est.)	34.0	-	34.0

EFFECT OF PHASE-OUT POLICY

PCB sales reduced in U. S. A. by

30 to 33 million pounds,

or 45%.

PCB PRODUCT CHANGES IN DIELECTRICS

CAPACITORS

97% conversion to Aroclor 1016

TRANSFORMERS

Elimination of Aroclor 1260

PCBs USED IN CAPACITORS

PCB	Major Use Period	% Less Biodegradable PCB
Aroclor 1254	1930-1952	77.0
Aroclor 1242	1952-Sept. 1971	9.0
Aroclor 1016	Oct. 1971-	1.0

MONS 059140

Capacitor Fluids

Why Convert To Aroclor 1016?

1. 9-fold reduction in less biodegradable PCBs.

2. Minimum industry testing required.

Capacitor Fluids

What Is The Effect of Aroclor 1016?

U.S. Capacitor Fluid Sales (1972) : ~ 20 M Lbs.

If Aroclor Was	% Less Biodegradable PCBs Would Be
1254	15,400,000 pounds
1242	1,800,000
1016	200,000*

200

*This does not mean 200M lb. less biodegradable PCBs enter environment.

PCBs Present In Askarel Transformer Fluids

	% Less Biodegradable PCBs	Major Use Period
Aroclor 1260	100	1930-1972
Aroclor 1254	77	1969-
Aroclor 1242	9	1968-

PCB Changes In Transformer Fluids

1. Aroclor 1260 being phased out now.
2. Aroclor 1016 cannot be used.
3. Incineration of scrap PCBs - 1971.
4. PCBs used in tightly sealed systems.