DOW XFS 4169L

1. Mixture of MONOCHLORO DIPHENYL ETHER with MONOCHLORO BUTYL DIPHENYL ETHER (Approx: 50/50) DOW has not published exact composition.

2. DOW claim available first quarter 1976 at rate of 1 MILLION LB/YR.

3. DOW forecast volume production price of $1.50 per lb ($13.50 per gallon).

4. Aimed initially to replace AROCLOR 1016 in POWER CAPACITORS.

5. DOW have compiled a detailed but not complete environmental study ~~which~~. They conclude the XFS 4169L is environmentally acceptable although degrading slowly. They admit a low order of bio accumulation.

Monsanto Reaction

DOW XFS 4169L IS A VIABLE CANDIDATE TO REPLACE AROCLOR 1016 IN POWER CAPACITORS AND COULD BE USED WITH ECONOMIC PENALTY IN OTHER CAPACITOR TYPES. IT, IN COMMON WITH ALL OTHER CANDIDATE REPLACEMENTS IS LESS FIRE RESISTANT THAN AROCLOR.

COMPARISON WITH MCS 1238

	AROCLOR 1016	XFS 4169L	MCS 1238
1. Environment.	25/100	80-90/100	80-90/100
2. Power Capacitor Production Cost.	100	110	105*
3 Power Capacitor Operating Cost.	100	100	102
4 Industrial/Light Cap cost.	100	120	105
5. Fire Resistance	100/100	80/100	75/100
6. Thermochemical Stability	100	100	80

* Based on MCS 1238 at $1.00 - $1.05 per lb.

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CONCLUSION.

1. AS A ~~CAPACITOR~~ DIELECTRIC LIQUID XFS 4169L IS SUPERIOR TO MIPB (THE BASE STOCK IN MCS 1238)

2. MONSANTO TXS (SULFONE) TECHNOLOGY GIVES A FLUID MCS 1238 WITH A ECONOMIC EDGE OVER XFS 4169L IN CURRENT CAPACITOR DESIGNS.

3. IF DOW APPLIED SULFONE TECHNOLOGY WITH XFS 4169L THEY COULD HAVE A SUPERIOR FLUID TO MCS 1238. (OUR PATENTS MAY NOT PRECLUDE DOWS USE OF SUCH TECHNOLOGY)

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