August 11, 1976

Mr. Gene L. Proctor
11310 White House Road
Upper Marlboro, Maryland 20870

Dear Mr. Proctor:

Askarel dielectric fluids are sold by Westinghouse as INERTEEN ® and by General Electric as PYRANOL ®. AROCLORS ® (Chlorinated Biphenyls) make up from 60 to 100% of the various askarels. Under ordinary handling procedures at room temperature, askarels should not present significant health hazards. However, like many chlorinated hydrocarbons, this material has the potential for chronic toxicity as a result of its ability to be stored in fat and the liver. Exposure to these compounds should be minimized.

Enclosed is a toxicity and handling statement for INERTEEN 100 and animal toxicity data on various AROCHLOR products. On the basis of these values, these materials cannot be regarded as having a high degree of acute toxicity.

| Compound | Rat Oral LD50 (mg/kg) | Rabbit Dermal LD50 (mg/kg) |
|---|---|---|
| AROCLOR 1016 | 2,350 | > 1,580 |
| " 1221 | 3,980 | > 2,000 |
| " 1232 | 4,470 | > 1,260 |
| " 1242 | 8,650 | > 794 |
| " 1248 | 2,750 | > 1,000 |
| " 1254 | 11,900 | > 1,260 |
| " 1260 | 10,000 | > 1,260 |
| " 1262 | 11,300 | > 1,260 |
| " 1268 | 10,900 | > 2,510 |
| " 1272 | > 7,940 | > 7,940 |
| " 2565 | 6,310 | > 2,000 |
| " 4273 | 8,920 | > 2,000 |
| " 4465 | 10,000 | > 2,000 |
| " 5430 | 6,100 | > 1,260 |
| " 5442 | 6,270 | > 2,000 |

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| | | |
|---|---|---|
| AROCLOR 5468 | > 12,600 | > 7,940 |
| " 6037 | 4,920 | > 5,010 |
| " 6040 | 3,290 | > 3,160 |
| " 6050 | 4,130 | > 7,940 |
| " 6062 | 8,050 | > 7,940 |
| " 6070 | 4,020 | > 7,940 |
| " 6090 | 10,000 | > 7,940 |

Because of their low volatility, chlorinated biphenyls do not present a significant vapor inhalation hazard at room temperature. However, heating of these materials, or uses which could produce aerosols, could result in increased air concentrations of these products. The American Conference of Governmental Industrial Hygienists has recommended Threshold Limit Values of 0.5 $mg/m^3$ and 1.0 $mg/m^3$ for 54% and 42% chlorinated biphenyls, respectively.

Very truly yours,

James G. Laveglia, PhD
Senior Toxicologist

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cc: Dr. James H. Spraul

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