August 11, 1976

Mr. Gene B. 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 PPO 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	5,310	> 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

JGL:alw

cc: Dr. James H. Spraul

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