

Monsanto

FROM (NAME & LOCATION) Dept. of Medicine & Environmental Health

- J. Laveglia, A2SC

DATE: July 14, 1976

cc: J.C. Weber - B2SK
D. Wood - B2SD

SUBJECT: Toxicity of INERTEEN PPO - Westinghouse

REFERENCE: HGM to JCW, 6/4/76

TO

H. G. McPhaden
Monsanto Toronto - 5110

Enclosed is a Toxicity and Handling Statement for INERTEEN PPO and AROCLOR 1016. Under ordinary handling procedures at room temperature, INERTEEN PPO 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.

N. Irving Sax's statements of acute toxicity for chlorinated diphenyls are incorrect. His statements are not documented. We have tested the following chlorinated biphenyls using rats for the oral LD₅₀ and rabbits for the dermal LD₅₀. On the basis of these values, these materials cannot be regarded as having a high degree of acute toxicity.

Compound	Oral LD50 (mg/kg)	Dermal LD50 (mg/kg)
<u>Aroclor 1016</u>	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	16,000	>2,000
" 5430	6,100	>1,260
" 5442	6,270	>2,000
" 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

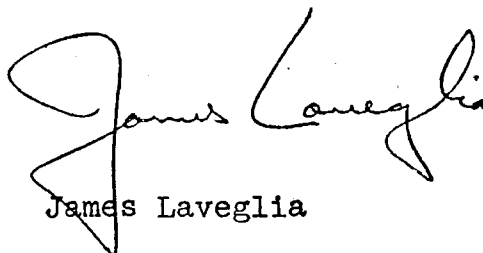
Because of their low volatility, chlorinated diphenyls do

DSW 552894

STLCOPCB4091311

H. G. McPhaden
July 14, 1976
Page - 2 -

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 diphenyls, respectively.



James Laveglia

/bkp

enc.

DSW 552895

STLCOPCB4091312