Table 10

Comparison of Toxicity of Products of Thermal Decomposition of Arpelor 1248 and a Paraffinic Hydrocarbon Hydraulic Fluid

(Air-Flow Through Furnace; Liters Per Minute: Paraffin 30, Aroclor 20)

Material	Rate of Delivery Into Furnace				Temperature of Inconel °F.	Experiment No.	Duration of Exposure Hours	Number of Animals That Died / Number of Animals Exposed				
	mg./min.	mg./l.	ml./min.	ml./l.				Guinea Pigs	Mice	Rabbits	Rats	Total
Aroclor 1248	176	5.8	0.122	0.0051	1050	7	7	2/2	3/5	1/3	2/2	8/12
Paraffin	181	6.0	0.208	0.0069	1050	8	7	0/2	0/5	3/4	2/4	5/15
Paraffin	123	4.1	0.141	0.0053	800	9	7	1/2	3/5	4/4	4/4	12/15
Aroclor 1248	174	5.7	0.121	0.0061	1050	9	3.5	2/2	4/5	2/3	0/2	8/12
Aroclor 1248	84	4.2	0.058	0.0029	1050	12	3.5	2/2	0/5	1/3	0/2	3/12
Paraffin	116	3.9	0.133	0.0044	1050	19	3.5	0/2	0/5	3/4	2/4	5/15
Paraffin	118	3.9	0.135	0.0045	800	10	3.5	0/2	0/5	0/4(1)	2/4	2/15
Paraffin	70	2.3	0.080	0.0027	800	15	3.5	0/2	2/5	4/4	1/4	7/15
Aroclor 1248	173	5.7	0.120	0.0060	1050	10	1.0	2/2	0/5	1/2	0/2	3/11
Aroclor 1248	98	4.9	0.068	0.0034	1050	13	1.0	2/2	1/4	0/3	0/2	3/11
Paraffin	109	3.6	0.125	0.0042	1050	20	1.0	0/2	0/5	0/4	0/4	0/15
Paraffin	213	7.1	0.247	0.0082	800	7	1.0	0/2	0/5	2/4	2/4	4/15
Paraffin	114	3.8	0.132	0.0044	800	14	1.0	0/2	0/5	1/4	0/4	1/15

(1) From remaining data (see Figure 8, report of June 15, 1954 on Paraffinic Hydrocarbon Hydraulic Fluid) we would anticipate that if this experiment were repeated that fatalities would occur among rabbits.

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