November 23, 1964

Dr. Harold Karlin
31 Bay State Road
Boston 15, Massachusetts

Dear Dr. Karlin: ca 99% Aroclors 1242 + 1240 silicone (50 ppm)

Pydraul A-200 is a compound that is a mixture of silicones and hydrocarbons. It has an oral toxicity to rats of over 10 g/kg which, of course, represents low oral toxicity.

chlorinated

We exposed rats to saturated vapors at room temperature, with no ill effect. This was an exposure of six hours. We, then, carried out mist exposures to fog caused by decomposition at 1000°F. There was considerable discomfort but the animals survived each one-hour exposure for a period of six hours. We, then, increased the concentration so that it was so dense that the animals were obscured in the back of the exposure chamber. They were subjected to 15 minute exposures. Oral and nasal discharge occurred, which ceased within one hour but the nasal mucosa was evidently irritated for a period of 24 to 36 hours.

I would not be at all surprised that an individual who was exposed to decomposition products of Pydraul A-200 would get some respiratory irritation. These decomposition products are essentially hydrochloric acid vapors, carbon monoxide, and phenolics. As is customary with hydrochloric acid vapors, such irritation is limited to the upper tract.

I would completely discount any systemic symptoms or illness as arising from the type of exposure you described, apart from the acute respiratory symptoms.

If you have any further questions, please let me know.

Sincerely,

R. Emmet Kelly, M. D.
Medical Director

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