BCC: J. F. Compton-Pittsburgh
C. R. Groninger-Pittsburgh
D. Smith-St. Louis

March 19, 1962

Thomas A. Speer, M. D.
Medical Department
U. S. Steel Corporation
Homestead District Works
Homestead, Pennsylvania

Dear Doctor Speer:

I am sorry but I am unable to give you the exact composition of Pydraul 150. As Mr. Compton has told you, it is a phosphate ester based fluid of varying amounts of chlorinated hydrocarbons. There are no amines present.

I feel the material can be absorbed through the skin if sufficient exposure occurs. For this reason, we advise against continuous or intermittent skin contact. The effect of the material on the eye is startling because of the intensity of the pain. We are quite certain no permanent damage will result. I know of no further treatment than administering an anesthetic solution and cortisone-type eye drops.

Animals survived dosages of 28.5 grams per kilogram. The maximum dose of 9.5 grams per kilogram was non-lethal by skin absorption. After dropping the material in the eye, it was entirely normal 48 hours after instillation. Animals survived six-hours' exposure to a saturated air concentration. While it is true that these data do not include chronic work, we have this type of data on closely related compounds. We feel sure the material can be safely used provided simple precautions are undertaken.

If you have any further questions, please write directly to me.

Very truly yours,

R. Emmet Kelly, M. D.
Medical Director

RMK:PH

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