April 13, 1967

Mr. J. P. Fain
P. O. Box 430
Bellaire, Texas 77401

Dear Mr. Fain:

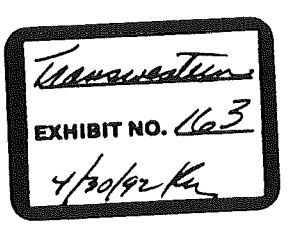
Mr. Bradford has asked me to forward toxicity and safe handling statements concerning our fire resistant compressor lubricants, Pydraul AC and Pydraul 625.

In animal toxicity studies with these fluids the oral lethal dose in rats has been found to be approximately 40 grams per kilogram of body weight. When fed to rabbits the lethal dose is 3 to 5 grams per kilogram. The greater sensitivity of rabbits is typical of this type of fluid.

These lethal doses are such that the fluid may be considered only "slightly toxic" to man from the standpoint of accidental ingestion of single oral doses. The fluid may be absorbed through the unbroken skin of rabbits in doses resulting in death, but again the minimum lethal dose is such that accidental massive skin exposures to man do not present a hazard.

Skin and eye irritation studies with rabbits classify the fluids as mild irritants. We do know, however, that the fluids are good solvents for the naturally occurring surface oils of the skin and repeated or prolonged skin contact can lead to drying of the skin much as occurs with many paint solvents. Accidental splashing in the eyes will result in moderately severe pain and irritation but no permanent damage to tissue should result.

Laboratory animals survived six-hour exposure to an atmosphere saturated with the vapors of the fluid. On the basis of these data and use experience, it is concluded that Pydraul AC



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and Pydraul 625 requires no special handling precautions other than avoiding prolonged skin contact and accidental splashing in the eyes when filling lubricating systems.

If I can be of any further assistance, please write me directly.

Very truly yours,

R. Emmet Kelly, M.D.
Medical Director

REK:cjs

cc: Mr. V. W. Sponseller
Mr. Larry Bradford
bcc: Mr. D. H. Bechtold

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