May 12, 1964

Dr. D. MacDonald, Medical Director
Polymer Corporation
Sarnia, Ontario, Canada

Dear Dr. MacDonald:

I have been asked to forward toxicity and safe handling information on our fire resistant hydraulic fluid, Pydraul 150.

The animal toxicity report on Pydraul 150 indicates that it is practically innocuous when fed orally to rats since the animals survived single doses of 28.5 grams per kilogram with loss of appetite and severe diarrhea as the only toxic effects. The fluid apparently is not absorbed through the unbroken skin of rabbits since this species survived doses up to 9.5 grams per kilogram of body weight. In rabbit skin and eye irritation studies, Pydraul 150 was no more irritating than a 10 per cent soap solution tested similarly.

In cases where workmen have accidentally splashed or rubbed Pydraul 150 into the eyes, there has been severe pain out of proportion to the degree of irritation. This is similar to the situation with most synthetic fluids as well as with many light petroleum oils. Physicians have used a 0.5 per cent pontocaine solution and ophthalmic cortisone acetate solution to relieve irritation.

In acute vapor inhalation studies, rats survived a six hour exposure to an atmosphere saturated with Pydraul 150 vapors at room temperature. I would not expect that significant vapor concentrations would be liberated at a maximum temperature of 100°F.

Based on the animal toxicity data and handling experience, our label includes the following precautionary information:

MONS 090902

CAUTION: CONTAINS CHLORINATED HYDROCARBONS

Avoid prolonged breathing of vapors or mists.
Avoid contact with eyes or prolonged contact with skin.
If skin contact occurs, remove by washing with soap and water. Following eye contact, flush with water.
If clothing becomes soaked with fluid, launder before wearing again.

If I can be of any further assistance, please do not hesitate to let me know.

Very truly yours,

R. Emmet Kelly, M.D.
Medical Director

REK:mjb

cc: D. E. Kerkland
Manager, Toronto Office

bcc: Dale Smith