February 4, 1966

Mr. Albert E. Scheible
Safety Engineer
Division of Safety and Hygiene
The Industrial Commission of Ohio
700 W. Third Avenue
Columbus, Ohio 43212

Dear Mr. Scheible:

Mr. Buchanan has asked me to forward the information requested in your letter of January 27.

I have enclosed bulletin describing our fire resistant hydraulic fluid, Pydraul 150.

The animal toxicity data referred to on the back page indicates that Pydraul 150 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 temperatures up to 100°F.

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

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: Mack Nichols - Cleveland
Dick Davis - Gen. Offices

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