March 1, 1961

Mr. Herman Horlacher
Chief Engineer, Fluids
Cincinnati Milling Machine Company
Marburg Avenue
Cincinnati 9, Ohio

Dear Mr. Horlacher:

I have been asked to forward toxicity information on our fluid Pydraul 150.

The 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 hydrocarbons. Physicians have used a 1 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.

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.

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If I can be of any further assistance to you in this matter, please let me know.

Very truly yours,

R. Emmet Kelly, M.D.
Medical Director

REK:dh

cc Mr. W. J. Hilliard
Monsanto Chemical Company
2330 Victory Parkway
Cincinnati 6, Ohio