

June 24, 1966

Mr. Frank Bolz
Diecast Foreman
Briggs & Stratton Corp.
N. 124th Street
Milwaukee, Wisconsin

Dear Mr. Bolz:

Dr. Hoamer of our Chicago office has asked me to forward toxicity and safe handling information for Pydraul A-200.

Animal toxicity studies with this product have indicated that the oral lethal dose (DD₅₀) to rats is 10,500 milligrams per kilogram. The lethal dose when the material was applied undiluted to the unbroken skin of rabbits is approximately 1250 milligrams per kilogram. *The skin and eye irritation and vapor inhalation tests results were comparable to the data for Pydraul 312.*

We conclude from the above that accidental ingestion on the part of humans is not a particular hazard in view of the high oral lethal dose in rats. Similarly, single massive skin exposures should not be immediately hazardous. The lethal dose obtained in skin penetration studies is such, however, that prolonged and repeated skin contact should be avoided because of possible systemic effects. In addition, prolonged and repeated skin contact may lead to skin irritation.

We also feel that vapor inhalation should be avoided when the fluid is heated to elevated temperatures. Such exposure again relates to prolonged or repeated exposures rather than short-term massive or acute exposures. In the case of the latter, workmen would not voluntarily expose themselves to concentrations that are hazardous because of irritation of the respiratory tract.

The use of Pydraul A-200 in industrial hydraulic fluid applications should not present toxicity hazards during the transfer of the fluid from original containers to the hydraulic system. Obviously when the fluid is within the hydraulic system, there should be no exposure and consequently, no hazard. In the event of rupture of hydraulic lines and

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subsequent splashing or spraying of the fluid on the heated surfaces, vapors of the fluid and possible decomposition products (depending on the temperature of the heated surface) may be irritating if inhaled to the degree that workmen will not voluntarily expose themselves to toxic concentrations. No hazardous exposure should result during the interval required to shut down the system and obtain suitable respiratory protective devices during repairs to the system.

We would not anticipate any greater hazards during routine maintenance of a system containing Pydraul A-200 than would be present if the system contained a phosphate base fluid. It would appear to be good practice to wipe dry any equipment before doing any welding on surfaces which might be "wetted" with or have a film of either type fluid on them.

If the above information does not answer your specific questions please let me know directly or through Dr. Hosmer.

Very truly yours,

R. Emmet Kelly, M.D.
Medical Director

REK:mjb

cc: D. L. Hosmer, Monsanto, Chgo

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