05-67

May 23, 1957

Mr. L. E. Roberts, Superintendent
Kentucky Hydrocarbon Corporation
Maytown, Floyd County, Kentucky

Dear Mr. Roberts:

Mr. Singleton has referred to me your inquiry concerning the possible hazard of using Pydraul AC in a compressor which will furnish compressed air for, among other things, an air-mask.

I can assure you that in my opinion there is no hazard from the use of Pydraul in this application. Pydraul is a liquid that has a very low vapor pressure and I feel that should there be any leak it will condense rapidly and not form a vapor or mist which could be blown into an individual's air-mask. I would imagine also that a further safeguard would exist in the traps that probably are installed in conjunction with air going to an air-mask.

The acute oral toxicity is low, amount of 30 grams per kilogram causing no effects to rats. Rats survived a 6-hour exposure to an atmosphere saturated with the vapors of the fluid. I feel quite sure these values could not be duplicated in the case of hydrocarbon fluids.

I am sure, therefore, that there is no hazard involved in the operation which you described.

Very truly yours,

R. Emmet Kelly, M.D.
Medical Director

REK:dh
cc Mr. C. B. Singleton
Monsanto Chemical Company
Atlanta 5, Georgia

bcc H. A. Lovejoy--Atlanta
F. H. Langenfeld--Robts. Bldg.
Cleveland Office
Cincinnati Office

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