General Offices - St. Louis 66, Mo. D. F. Smith - St. Louis

October 7, 1960

PYDRAUL AC TOXICITY
Standard Oil Company

Your memo to D. F. Smith - 9/26/60

Mr. William P. Conant, Jr.
San Francisco

Currently, all of our labels for Pydrauls containing Aroclors include the comment that the fluid contains "chlorinated hydrocarbons". This is a requirement under several state labeling laws, including California. I would assume that with this information, Standard would conclude (correctly) that the chlorinated hydrocarbon is an Aroclor.

I have enclosed two copies of a summary of Pydraul AC toxicity range-finding data, one of which you may want to pass on to Standard Oil.

We have recently obtained some sketchy analytical data which appears to bear out our conclusions that neither significant amounts of the "chlorinated hydrocarbon" nor the other components of Pydraul AC carry over into the piping system which may supply air for air-supplied respiratory equipment. At the moment, we cannot refer to this data because it isn't comprehensive enough to be representative for all types of compressors operating at varying temperatures with varying amounts of piston wear, etc.

Our usual answer to inquiries from customers is as follows:

> "We believe that any Pydraul AC carried over in compressed air or gases presents no significant toxicity hazard to humans breathing the air or gas. Certainly, single or limited repeated inhalation exposures cause no effect in industrial uses of compressed air where workers are provided with protective air-supplied respiratory equipment. Any Pydraul AC vapors in concentrations to be toxicologically significant would be objectionable from the standpoint of odor. Even these concentrations would not be significant in terms of possible toxic effects unless the workers were continuously exposed eight hours a day, week after week, during their working hours.

"We believe good industrial practice dictates that compressed air systems providing air to workmen engaged in sand blasting or other industrial operations include air line filters. As I am sure you know, an example of such a filter is one available from the Mine Safety Appliances Company which will remove oil, water, mists and condensation from compressed air, organic vapors and odors."

Elmer P. Wheeler

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