HYDRAUL AC
(05-67)

November 30, 1950

Mr. Leroy Frewin
Assistant Chief Power Engineer
American Smelting & Refining Company
810 West First Street
Salt Lake City, Utah

Dear Mr. Frewin:

Mr. Plummer has asked me to send you toxicity information on our product Pydraul AC.

As pointed out in our technical bulletin, the toxicity of this material is of a very low order. We do recommend, however, that repeated or prolonged skin contact be avoided not so much because of the danger of any toxic effects, but because any significant exposure may result in irritation of the skin of some individuals or lead to chapped, dry skin with subsequent soreness. Pydraul AC does not have a serious potential in this respect but good practice dictates that care be exercised to the extent that workmen do not wash their hands in the liquid or work all day with an "oily film" of the fluid on the skin. We do not see why such practice should present any restrictive use of the fluid.

In connection with using air distributed by compressors equipped with Pydraul AC, there should be no difficulty of any toxic effects if workmen breathe such air. The fluid is of such low vapor pressure that at normal working temperatures air will not contain any significant quantities of the Pydraul AC vapors. On the other hand, if it should be found that the compressed air has a distinctive odor of the fluid, then the airline mask worn by the workmen should be provided with an airline filter such as that manufactured by the Mine Safety Appliances Company. This is a filter designed for use where plant compressed air is also used for airline respirators or masks and the filter is quite commonly incorporated in the line to remove vapors, oil, water mists, and condensation from the compressed air.

Also incorporated in the filter is a canister of activated charcoal which absorbs organic vapors and any objectionable odors.

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Again, good industrial practice requires the use of such filters in order to provide the workmen using a respirator with clean, dry air regardless of the lubricant used in the compressor or the source of the air.

We in the Medical Department have no hesitancy in recommending the use of Pydraul AC in compressors in our own plants.

Sincerely yours,

Elmer P. Wheeler
Assistant Director
Medical Department

EPW:dh
cc Mr. M. C. Plummer
bcc Mr. C. L. Fetzner - LA

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