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August 6, 1963

Mr. M. J. Hipp
The Boeing Company
Aero-Space Division
P.O. Box 3707
Seattle 24, Washington

Dear Mr. Hipp:

In reply to your July 30 request for composition information on our fluid Pydraul AC, I am sorry to inform you that this is a proprietary product and we are under obligation not to disclose its composition other than to say it is a phosphate ester based formulation containing chlorinated hydrocarbons.

In connection with using this fluid in air compressors where the air may be supplied to air masks or other respiratory protective devices, we believe that any Pydraul AC carried over in the compressed air presents no significant toxicity hazard to humans breathing the air. A limited series of samples taken from a compressed air line used for such purposes indicated that no measurable quantities of the components of the fluid were present. The compressor in question had been supplied with Pydraul AC for a period of more than three years at the time the samples were taken.

In spite of the limited evidence that the compressed air will not contain dangerous amounts of the fluid, we believe that any system involving the supply of compressed air to workmen's masks, respirators or suits, should incorporate a filter in the air supply line. The purpose is to remove any foreign material which might be present including rust, oil droplets, odors, or organic vapors and the filter should be used with any kind of compressor lubricant - synthetic or otherwise.
Such a filter can be obtained from several manufacturers including the Mine Safety Appliances Company.

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If I can be of any further assistance, please do not hesitate to let me know.

Very truly yours,

Elmer P. Wheeler, Manager
Environmental Health
Medical Department

EPW:sf

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