CC Mr. J. B. Wright - Cleveland

BCC Mr. F. H. Langenfeld - Roberts MB
Mr. H. Langton - Cleveland

September 30, 1955

Mr. Kenneth M. Morse
Chief Industrial Hygienist
U. S. Steel Corporation
525 William Penn Place
Pittsburgh 30, Pennsylvania

Dear Ken:

Jim Wright of our Cleveland Office has informed me of a recent discussion with you concerning our product, Pydraul F-9. Jim told me further that you requested an opportunity to review the Kettering Laboratory reports on their investigations of Pydraul and other hydraulic fluids.

I am sending under separate cover, two Kettering reports which are the following:

"The Toxicity of the Fogs Formed by Dropping Pydraul F-9, Aroclor 1248 and Tricresyl Phosphate, Upon the Surface of a Heated Inconel," by Treon, Cleveland, Shaffer, Cappel, Gabegan, and Wagner, March 11, 1953.

"The Toxicity of the Fog Formed by Dropping Carnegie Upon the Surface of Heated Inconel," by Treon, Cleveland, Lawson, Cappel, June 15, 1954.

Please return these reports after you have had an opportunity to review them.

Enclosed with the reports is a technical bulletin on Pydraul F-9 which describes some of the chemical and physical properties of this fluid. This booklet may be retained for your files.

Attached to this letter is a copy of a letter sent to Mr. M. M. Wilkin of your U. S. Steel location in Youngstown, Ohio, by Mr. Kelly, our Medical Director. I thought it would be of interest to you. In addition, I would like to add the following comments which concern the subject of safe handling of Pydraul F-9.

Pydraul F-9 was our first industrial type hydraulic fluid. Consequently, our toxicological investigation of this product has been

quite extensive. Included with the Kettering reports mentioned above, is an interpretation of the toxicity studies which was prepared some time ago to assist non-industrial hygiene personnel in making some sense out of the animal studies. Perhaps you will want to use this in any conclusion you develop for your technical but non-industrial hygiene people.

All of the reports and the discussions have been reviewed by many of our common friends and acquaintances in industrial hygiene, including--Castrop, Lee Cralley Spaicher, Dr. Hodge, Dooley, Patet, and Professor Drinker. Please feel free to discuss these reports with any of these people or with Joe Treon who directed the animal toxicity studies.

Hydraul F-9 has been sold now for approximately 6 years and we have never heard of any difficulties in any installations except for the pain and temporary eye irritation which results if the material accidentally contacts eye tissues. There have been several instances which have come to our attention where such contact has occurred and has been accompanied with rather severe "burning and smarting." Consequently, we point out in our section on "Toxicity and Safe Handling Information" that in case of such accidental contact, prolonged washing of the eyes with copious quantities of water is recommended. The worker should then see a physician for treatment with an ointment or solution containing an anesthetic (such as 1 per cent Pontocaine).

If, after reviewing these reports, you have any additional questions or if I can be of any further assistance to you, please let me know.

Very truly yours,

Elmer P. Wheeler
Assistant Director
Medical Department

EPW:SMB

Attachment

cc Mr. J. D. Wright
Cleveland Office

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