bcc C. Paton/J. J. Rodar
1010 C. F. Seger
1010 R. A. Garcia

October 6, 1971

Mr. Charles Wilson
Harshaw Div.
Union Camp Corp.
Dover, Ohio 44622

Dear Mr. Wilson:

Mr. Chuck Seger, our Monsanto Therminol representative, called on you last week concerning your usage of Therminol FR-1 heat transfer fluid. Mr. Seger related that the Therminol FR heating systems are used to heat vessels for the manufacture of chemicals that go into cosmetics and food wrap plasticizer.

The Therminol FR-1 heat transfer fluid presently in use in your heating system contains polychlorinated biphenyls (PCBs). As you are undoubtedly aware, the PCB concentration in our environment is under the scrutiny of various governmental agencies and scientific research laboratories. In some studies, certain PCBs have been found to be a persistent environmental contaminant, and possibly, injurious to certain forms of bird, aquatic and animal life. Accordingly it is very important that PCBs be kept out of our food chain. Specific applications where the use of Therminol FR fluids should definitely be avoided are systems involving food or food related products, animal feed, pharmaceutical products, packaging materials involving any of these items, and buildings where any of these items are manufactured or stored.

Inasmuch as your Therminol FR system is used to manufacture products that goe into food packaging and cosmetics, we must seek an immediate change to a non-PCB containing heat transfer fluid.

We have two fluids, Therminol 55 and Therminol 66, that would be conversion candidates for your heating system. If memory serves me correct, you are using an 8 million BTU per hour Kelipse heater with fluid outlet temperatures between 560°F and 590°F. Because of these higher temperatures I would recommend Therminol 66 as the best possible replacement fluid for Therminol FR-1. Therminol 66 has fluid stability to 650°F and would provide a long useful life in this heating system.

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Should you change to Therminol 66 before December 1, 1971 we will offer this product at 22¢/lb. FOB Anniston, Ala. In addition we would provide free disposal of the Therminol FR-1 fluid now in the installation. This disposal would include freight for the quantity of fluid returned to our Sauget, Ill. plant.

Should you decide in favor of Therminol 55, a 575°F fluid to replace FR-1, we can offer this product at 70¢/gallon FOB Alvin, Texas. Again, we would provide free disposal of the Therminol FR fluid in the system and pay return freight to our Sauget, Illinois plant.

Neither Therminol 55 nor Therminol 66 are classified as fire resistant heat transfer fluids. Consequently, you may wish to consider the use of protective devices to minimize any added fire risks. We suggest that you consult with the insurer of your property relative to this matter. Again, let me stress the urgency toward changing from the PCB containing Therminol FR-1 fluid as public awareness of the PCB problem is increasing.

Should you have any questions on Therminol 55 or 66 or on the conversion from Therminol FR fluids, please feel free to contact either Chuck Seger in Akron at P.O. Box 5444, 260 Springside Drive, (216) 666-4111 or me in St. Louis.

Very truly yours,

D. E. Roush
Product Specialist
Heat Transfer Fluids

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Enclosures

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Blind note to bcc:

This system went to FR-1 in 1968 after many years on Dowtherm vapor service at this plant. The system was installed much to the objection of Ralph Lawrence who was the Chief Engineer at that time. I would certainly like to retain this account on Therminol fluids if possible. Concerning the inference that Dowtherm G might be used to replace the FR-1, the fire protection equipment for the heater and the work area would be the same regardless of the flammable heat transfer used. The price advantage we are offering on 66 should be enough to swing the balance in favor of Therminol. As last resort, Therminol 55 could be sold into the installation; however, having had prior experience with the heat exchangers and the Eclipse heater on this job, Therminol 66 is the only product I would want to use.

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