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bcc C. Paton/J. J. Roder
1180 R. V. Weyland
1010 R. A. Garcia
1210 A. J. Rego

November 19, 1971

Mr. Mike Kenes
Dow Chemical Co.
2121 New World Drive
Columbus, Ohio 43201

Dear Mr. Kenes:

The information related to you on restricted use of Therminol FR fluids is essentially correct. The Therminol FR series of fluids contain polychlorinated biphenyls (PCBs) of various types.

The PCB concentration in our environment has come under severe scrutiny of various governmental agencies and scientific laboratories. In some studies, certain PCBs have been found to be a persistent environmental contaminant. Some PCBs are, possibly, injurious to certain forms of bird, aquatic and animal life. Accordingly, it is very important that PCBs be kept out of the food chain.

Let me take this opportunity to remind your firm of the extreme care that must be taken by all users of PCB-containing products to prevent entry into the environment through spills, leakage, use, disposal, vaporization or otherwise. Some specific applications for the use of Therminol FR series that should definitely be avoided are in heat transfer systems involving food or food related products, animal feed, pharmaceutical products, packaging or sealing materials involving any of the above items, and buildings where any of these items are manufactured or stored.

I would encourage you to consider a change from the Therminol FR fluid at your Chicago Heights facility in the event this product becomes unavailable. I recommend either Therminol 55 or Therminol 66 as a suitable alternate fluid for your heat transfer system. Therminol 55 and 66 do not contain PCBs. However, they should not be considered fire resistant fluids. We would advise you consult your insuring agency to determine the need for additional protective devices to minimize fire risk when using a non fire-resistant fluid such as Therminol 55 or 66.

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As a general guideline on which fluid to select, I would suggest the use of Therminol 55 at temperature requirements below 550°F. Therminol 66 is more thermally stable than 55 and can be used to temperatures up to 650°F. Both fluids are liquid phase heat transfer mediums and can be used to both cool and heat a process. Selection of a fluid is dictated by your process temperature requirements. I have included physical property data sheets on these two fluids.

We would be happy to work with you toward a change from Therminol FR-1 to either Therminol 55 or 66.

In the interim any leakage of Therminol FR fluid from the Chicago Heights system should be contained and collected. We provide an incineration service for this leakage. I have included a leak free and disposal bulletin. A nominal charge of 3¢/lb. is assessed for this service. Fluid should be returned prepaid along with your purchase order to the address shown on the disposal bulletin. Additional information on a fluid change for fluid disposal can be obtained from Mr. A. J. Rego, our Therminol representative serving your area. Mr. Rego is located in Cincinnati at:

Monsanto Company
1501 Madison Road
Central Trust Building
Cincinnati, Ohio 45206
(513) 751-5707

Our Therminol representative serving Chicago Heights is Mr. R. V. Weyland. Mr. Weyland can be reached through our Chicago office at:

Monsanto Company
3158 Des Plaines Avenue
Des Plaines, Ill. 60018
(312) 296-6685

Very truly yours,

D. E. Roush
Product Specialist
Heat Transfer Fluids

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Enclosures

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