June 15, 1970

Mr. R. Drbal
The Goodyear Tire & Rubber Co.
Department 110E
Akron, Ohio

Dear Mr. Drbal:

Thank you for your inquiry on Therminol FR-1 and Aroclor 1248 for the Scottsboro, Alabama plant. Let me define further my answers to your questions on these products.

The Therminol FR heat transfer fluids are chlorinated biphenyl based chemistries which make them fire resistant. They are manufactured to specifications which give maximum thermal properties as well as a useful fluidity without sacrifice of fire resistance.

Aroclor is a somewhat generic name for the broad range of chlorinated biphenyl chemistries. Those biphenyls with low chlorination are not fire resistant and have very low boiling ranges. The higher chlorinated biphenyls are too viscous for practical use or even even solids.

We have encouraged the use of Therminol FR-1 over FR-2 and FR-3 because of better thermal stability and low temperature fluidity.

We have also encouraged the use of Therminol FR-1 for heat transfer use over Aroclor 1248 at Goodyear because of better thermal stability and performance characteristics.

Now a new problem confronts industry and affects our position on chlorinated biphenyls -- environmental pollution.

I've enclosed literature mailed to our customers on February 9 regarding the pollution issue and chlorinated biphenyls.

The higher chlorinated isomers of biphenyl are persistent in our environment and have been identified. Aroclor 1248 contains a sufficient percentage of these isomers to limit and even terminate its sale to customers. Therminol FR-3 will be discontinued for this reason. Therminol FR-1 can be assimilated in nature and will be continued.

We feel a strong responsibility toward eliminating pollution to our ecosystem and will insist that all Therminol, and other industrial high temperature oil systems, be contained and leakage controlled with safe disposal of any leakage. We are developing disposal systems for our Therminol FR and Aroclor fluids and information concerning this program will be forthcoming.

I have asked John Mailala, our Therminol representative serving Akron and the Apple Grove plant to schedule a visit during week of June 15 to discuss the use of Aroclor 1248 in the heating systems at Apple Grove.

Should you require further information on pollution for Aroclor 1248 or Therminol FR-1, please have your Industrial Hygienist or Medical Department contact Mr. J. Garrett in our Medical Department in St. Louis. The address is on the letterhead.

Mr. Drbal, I'm confident Therminol FR-1 will serve your heating requirements at Scottsboro and provide the safety of operation Goodyear demands in your plants.

It is our pleasure to serve Goodyear with Therminol heating fluids. Please call if we can be of further service.

Very truly yours,

Donald E. Roush
Heat Transfer Specialist
Functional Fluids

/dn
Attachments

cc: W. H. Best
The Goodyear Tire & Rubber Company
Scottsboro, Alabama

bcc: J. R. Fallon
R. A. Garcia-Akron
J. Mailala - Pittsburgh
C. Clay - St. Louis

NOTE: We've quoted 10,000 gallons FR-1 for Scottsboro plant. Also quoted Aroclor 1248 as used at Apple Grove and I indicated possible unavailability of 1248 which stimulated questions from Drbal, the project manager.

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