January 26, 1970

Mr. John Hogan
Safety Director
General Tire & Rubber Company
Textileather Division
P. O. Box 875
Toledo, Ohio 43601

Dear Mr. Hogan:

Mr. Fague of our Detroit Office has asked me to write you briefly in respect to the safety requirements to handle ~~Thermanol FR-1~~. Thermanol FR-1 contains a chlorinated hydrocarbon and as such should be handled with the care generally given materials of this kind. This material has a threshold limit value for exposure to working personnel of one milligram per cubic meter of air. Workers should be provided with skin protection when there is a possibility of repeated skin contact.

We have considerable mammalian toxicity data on this product. These data indicate that the oral LD_{50} in rats is 8,650 milligrams per kilogram and that the skin absorption toxicity in rabbits is between 794 and 1,260 milligrams per kilogram. These data indicate that the compound is slightly toxic by this route of administration. We suggest that workers not be exposed to high concentration vapors when the product is handled at elevated temperatures. This will require the system be such that vapors do not escape in the working environment.

Our customers have experienced little difficulty with the product through the years when they follow good hygienic practices and when vapor exposure is carefully controlled.

If we can be of any further help, please let us know.

Sincerely,

Jack T. Garrett
Manager, Industrial Hygiene

JTG:ju
c.c. G. F. Fague
J. R. Fallon

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