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November 5, 1962

CC: R. Davis
R. E. Draper - Chicago
L. E. Klein
K. L. McHugh
T. M. Patrick
D. E. Roush - 30 2nd Street
T. P. Sands/REH/DJM
L. R. Stark
J. D. Sullivan
E. Wheeler
R. S. Wobus

DEVELOPMENT DEPARTMENT CALL REPORT NO. FF-672
General Mills, Inc.
Kankakee, Illinois

Date of Call: November 1, 1962

For General Mills: Claude Brown
R. L. Scheribel, Senior Process Engineer
R. L. Winters, Supervisor, Process Development

For Monsanto: D. E. Roush
J. D. Sullivan
L. R. Stark
K. L. McHugh
M. McEwen

This call was made to discuss the use at General Mills of our new high temperature industrial heat transfer fluid, MCS 177. Because of their urgent need for a heat transfer fluid operable at temperatures higher than our Therminols can be used and our interest in having a field test run on MCS 177, we loaned General Mills 200 gallons of this fluid in September for a pilot plant application.

To date, they have subjected MCS 177 to 670°F. operating temperatures for about 300 hours, to 500°F. for 150 hours, and 200°F. for the remainder of the four week period. The fluid is being used in a small pilot plant operation in which General Mills conducts proprietary new process development work. The temperature demand in the fluid varies considerably in these operations but it is subjected to temperature over 600°F. enough of the time for us to get a reasonably good assessment of performance.

Because of the experimental nature of the MCS 177, they appear to have kept pretty close watch on its behavior. In general, the fluid was behaving as anticipated although they were somewhat surprised at the high viscosity of new fluid. They have been taking weekly samples from their system and have been monitoring the fluid condition by determining the viscosity of these samples. Only very slight viscosity increases have been noted after 300 hours at 670°F. We obtained past

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samples and arranged to have 100 hour (at 670°F.) samples sent to us routinely. We promised to send them our analysis of the condition of these samples and to pass on information obtained from our loop studies of this fluid.

Claude Brown was concerned about the future availability of this product not only for this pilot plant unit but for production units that could be built any time. He also asked us to send him any toxicity information we had on this product.

M. McEwen

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NOTE TO E. WHEELER: Please handle last paragraph. Thanks.

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