Monsanto

FROM (NAME & LOCATION) L. R. Stark - Research Center

DATE : March 16, 1967

SUBJECT : THERMINOL FR-1 WITH STABILIZER FOR LANSON CHEMICAL COMPANY

REFERENCE :

TO : D. Harris - WGK Plant

cc: R. Davis/D. Roush RDAVI
C. Williams CWILL
P. Heisler - Krummrich
W. Richard WRICH
J. Sullivan JSULL
R. Entrup RENTR

We have some field tests going with Therminol fluids which contain an additive to improve fluid life. Marketing has arranged for another test at Lanson Chemical Company (E. St. Louis). Eight 55 gal. drums of Therminol FR-1 each containing 0.02% diisopropyl hydrogen phosphite will be required. A formal order will be placed by either C. Williams or the St. Louis District Sales Office.

At this time, we don't know if such a blend will go into general production. As we discussed, this order is probably best handled by adding the additive as drums are filled. This memo will serve to outline the desired procedure. We are preparing a formal Suggested Procedure for this blend which we'll issue somewhat later.

I suggest that the drum be filled 1/4 to 1/3 full. Pour in 54 grams of diisopropyl hydrogen phosphite additive and complete filling the drum. Therminol should be 130F or greater during filling to lower viscosity and facilitate mixing by means of the incoming stream. I will supply the phosphite additive weighed into separate bottles with enough in each bottle to add to one drum.

The drums should be labeled Therminol FR-1 Special and be given a separate lot number. Please send us one quart of the Therminol before additive treatment and a sample from one of the drums after treatment.

Normal precautions should be used in handling the Therminol. We do not have specific toxicity on the additive alone; however, it has been tested for toxicity in a fluid with 5 times the concentration used in this blend with no undesirable results. The operator who adds it to drums should be cautioned that it is not considered highly toxic, but should be washed off with soap and water if spilled on the skin. We have been handling this additive in the lab for 6 or 7 years. Definite toxicity data are being obtained from the supplier and our Medical Department to put in the Suggested Procedure.

filled 8 drums in March.

L. R. Stark

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