

INTER-OFFICE MEMO

TENNECO CHEMICALS, INC.

to G.W. Leach

At Burlington

DATE February 18, 1972

FROM F.W. Kanzler

At Burlington

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R. J. Eckman

~~Analytical~~ Laboratory

File

SUBJECT Evaluation of Antifoams
Project 10-037

The submitted defoamer samples were evaluated with the following results:

1. Apparatus and Method

The following is a brief outline of the method of evaluation used: a vertical centrifugal immersion pump was fitted with 1/4" tubing to recycle a 1% sodium lauryl sulfate solution contained in a stainless steel bucket. A foam rise rate was established by recycling the above solution without antifoam addition. A time of eleven (11) minutes was established for a foam rise of four (4) to six (6) inches. This time was used as a standard time for the antifoams evaluated.

2. Evaluation

a. Tributyl Phosphate (TBP) - Analytical Number 4632

A five-inch foam layer was reduced to 1/4" inch after the addition of 250 ml of water admixed with about 6% of TBP.

b. Colloids X-50852-3 (Lot LB-10094) - Analytical Number 4633

This test showed that a five-inch foam layer was reduced to one inch after the addition of the Colloids antifoam and eleven (11) minutes of recycling.

c. Tributyl Ethyl Phosphate (TBSP) - Analytical Number 4634

The sample of this antifoam reduced the five-inch foam layer to about 1-1/2 inches after the eleven (11) minutes of recycling.

Fred W. Kessler.

F.W. Kanzler

FWK/jt