

ETHYL CORPORATION

RESEARCH LABORATORIES • 1600 WEST EIGHT MILE ROAD
FERNDALE 20, DETROIT, MICHIGAN

March 7, 1951

Dr. R. A. Kehoe
Kettering Laboratory
University of Cincinnati
Cincinnati, Ohio

Dear Bob:

Oxidation of Liquid TEL

In answer to your recent inquiry regarding the oxidation of the TEL used in preparing an air-vapor mixture, we recommend that you add to the liquid 0.1 wt % trialkylphenol antioxidant, and I shall ask Harold Soroos to send you some.

In this connection, I enclose copies of our laboratory reports, LTD 43-53, "Basic Study of the Stability of Ethyl Fluid" and LTD 44-47, "Decomposition Products of Ethyl Fluids" (you should have been on the original distribution list for these); also refer to LTD 47-17, "Oxidation of TEL Vapor in Air", which you have already received.

As you can see, we have never done much work on antioxidants for pure TEL, most of the work being on Fluid; however, the trialkylphenol should be very effective.

Sincerely yours,



Harold A. Beatty

HAB:hk

Encl.

cc: Dr. G. Edgar
Dr. H. Soroos

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