



E. I. DU PONT DE NEMOURS & COMPANY
INCORPORATED
WILMINGTON 98, DELAWARE

EMPLOYEE RELATIONS DEPARTMENT
MEDICAL DIVISION

March 16, 1953

R. A. Kehoe, M. D.
Kettering Laboratory
University of Cincinnati
College of Medicine
Bethesda & Eden Avenues
Cincinnati, Ohio

Dear Dr. Kehoe:

During my absence last week, 2 samples of rust and scale (A-34 and A-37) were sent to you. I am attaching a copy of a letter written to me by R. B. Davis of our Petroleum Chemicals Division concerning these samples. From this letter you can understand the nature of the problem and the opinion desired.

At your convenience will you kindly carry out a lead partition study on these samples, advising me not only of the laboratory findings, but of more importance, your opinion regarding the relative hazard the presence of such rust and scale represents in a so called "lead free" tank.

Two other problems which recently confronted me and ones in which I would greatly appreciate your opinion are:-

- (1) What hazard if any, is represented in the contamination of Stoddard or Paint Solvents with lead in concentration ranging from 0.8 p.p.m. to 1.1 p.p.m.?
- (2) What hazard exists in the indoor handling of diesel fuel as well as in the usage of such diesel fuel as a stove-oil if it has been contaminated with TEL in the quantity of .02 c.c. per gallon of oil?

I would appreciate your opinion in these matters at your earliest opportunity. However, if in your opinion these matters could be better handled by a discussion rather than correspondence, please advise and I can make arrangements to visit you.

With kindest personal regards.

Very truly yours

S. L. Rankin, M. D.,
Medical Advisor
Petroleum Chemicals Division

SLR/hlg
Attachment

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E. I. DU PONT DE NEMOURS & COMPANY
INCORPORATED
WILMINGTON 98, DELAWARE

ORGANIC CHEMICALS DEPARTMENT
PETROLEUM CHEMICALS DIVISION

March 6, 1953

DR. S. L. RANKIN
MEDICAL DIVISION

In accordance with our conversation today we are shipping two samples of rust and scale to Dr. R. A. Kehoe at the following address:-

R. A. Kehoe, M. D.
Kettering Laboratory
University of Cincinnati
College of Medicine
Bethesda & Eden Avenues
Cincinnati, Ohio

These samples are marked A-34 and A-37 and in addition have the identification DuPont - Dr. Rankin on the label. Both of these samples of rust and scale were taken from tanks with essentially the same history as follows:

These tanks were cleaned to meet our definition of a lead-free tank for the purpose of entry without protective equipment. The tanks were then allowed to remain idle for approximately three months at which time they were filled with water and hammer tested. This caused rust and scale to fall from the side walls of the tank to the bottom. When the water was withdrawn it was necessary to remove this rust and scale from the bottom by means of shovels and squeegees.

We ask that you have a lead partition study made using these samples and would appreciate your opinion as to whether any protection should have been used by those men who were engaged in removing this material from the tank, other than dust filters which of course, would be necessary if a dusty condition should occur when the scale or rust became dry.

R. D. DAVIS

RBDavis/nm

SUPERVISOR OF OPERATIONS

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