

February 24, 1953

Mr. H. L. Nixon
Ethyl Corporation
1917 Buchanan Street
North Kansas City 16, Missouri

Dear Mr. Nixon:

I send you herewith two copies of the analytical report on the sample of material received from Tank No. 8 of Standard Oil Company at Neodesha, Kansas, as referred to in your letter of February 6.

It may be noted that there are very small quantities of organic lead in this material, not unlike those found in ordinary sludge from storage tanks that have been used for the storage of leaded gasoline, the total organic lead adding up to slightly more than 0.12 per cent in the one instance and about 0.06 per cent in the other. Considering the low content of the tetraethyl lead fraction (volatile), there seems not to be any significant hazard from handling this material, provided it is not permitted to pile up within an enclosed place, i.e. that it is not carted into a smelter and dumped down in considerable quantities while awaiting smelting.

It occurs to me also that it might be wise, for our own information in connection with similar situations, to have an air analysis after the top layer of this material has been removed. It seems possible that when one digs into it and removes the top layer to some depth, tetraethyl lead trapped in the underlying layers may be available for vaporization. If such an analysis should yield a somewhat higher value than that obtained previously, another sample of the sludge might be obtained and forwarded to us for analysis.

Cordially yours,

Robert A. Kehoe, M. D.

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C.C.: Mr. J. S. Maynard - with copy of report
Mr. L. R. Fleck - with copy of report

Enc.

Material: Sludge
Submitted: 2-10-53 by Mr. H. L. Nixon, Ethyl Corporation,
Kansas City, Missouri
Required: Lead Partition Study (Organic and Inorganic)

#1 - At the immediate point of the pump discharge - Dried
sludge from the sump of material pumped out of tank #8,
Standard Oil Company, Neodesha, Kansas

Analysis Number	- 53A-951
Per Cent Lead as Lead Tetraethyl	- 0.01
Per Cent Lead as Triethyl Lead Halides	- 0.06
Per Cent Lead as Diethyl Lead Halides	- 0.05
Per Cent Lead as Di- and Triethyl Lead Halides and Carbonates	- 0.006
Per Cent Lead as Inorganic Lead	- 28.75

#2 - As far as possible from pump discharge - Dried sludge
from the sump of material pumped out of tank #8, Standard
Oil Company, Neodesha, Kansas

Analysis Number	- 53A-952
Per Cent Lead as Lead Tetraethyl	- 0.005
Per Cent Lead as Triethyl Lead Halides	- 0.017
Per Cent Lead as Diethyl Lead Halides	- 0.03
Per Cent Lead as Di- and Triethyl Lead Halides and Carbonates	- 0.01
Per Cent Lead as Inorganic Lead	- 38.75

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Reported: 2-23-53