

CC: Mr. J. E. Schaefer
Dr. R. A. Lahoe

ETHYL GASOLINE CORPORATION

MANUFACTURING AND TRAFFIC DEPARTMENT

INTER-OFFICE
CORRESPONDENCE

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October 4, 1938

Memorandum to:

Mr. O. B. Lewis

Last week Mr. Baldwin brought to the plant can No. H-1216 which he picked up at Ambler Brothers, Philadelphia. The contents were reputedly a sample of straight uncolored tetraethyl lead which one of their acquaintances claims he obtains for his racing cars or boats, as the case may be. Ambler Brothers did not disclose the name of the person from whom the material was obtained, nor the original source. However, from conversation with Mr. Baldwin, it is my understanding that he has an indirect inference that the material originated from the Eastman Kodak Company. This may or may not be true.

Analysis showed the material to have a specific gravity of 1.625 at $20^{\circ}\text{C}.$, and its tetraethyl lead content was 97.65% by the iodine titration method. Unquestionably the material is commercial tetraethyl lead. The size of the sample was approximately 250 cc.

There is one puzzling detail with regard to this sample. Can No. H-1216 contained ETHYL Red Fluid when shipped originally to Ambler Brothers. They report that the can was washed out carefully with gasoline before transferring the special sample to it. Strange to say, the sample was rather blue in color, approximately equal to the color strength of gasoline containing 0.3 to 0.4 grams of our ETHYL Blue dye per 100 gallons. The lead analysis shows that there could have been little contamination from the can itself, and this is further substantiated by the difference in color. This would indicate that the tetraethyl was distributed already dyed.

J. E. Schaefer

BY: *CS*

G:LS

KE 0009962

Dr. R. W. Wiley - In charge of operator
Dr. Grebel 1st in charge of Physical Lab
Dr. Boush 2nd in charge " " "

Laboratory reaction c TEL as catalyzed
 $\frac{1}{2}$ g to $1\frac{1}{2}$ solution of TEL in solvent
0.1 g at times
Question of fate of TEL in form
Determine presence of TEL.

~~1-4-58~~
- operates continuously - capacity > 700 cwt
w/less box containing T.E.L. to be put up
at 4 p.m. use of solution containing bromine

Regulation - Works off inside of front road line
back of front

Handling of Slime

Recommendations

New storage space - one man responsible
Handling slime 1 man responsible per end
yearly shift

Send sample containers to Dr.
Can also find for five men

See analytical results one man
in alphabetical lead analysis file
under (miscellaneous)

Calc. Circumference per. for volume of
Garnis covered with
C.P. 14

Also of material

- ① Sample of reaction mixture
- ② Samples of material, from outside
- ③ Sample of slurry from outside
- ④ Sample of powder from slurry
- ⑤ Sample of water vapor from slurry
- ⑥ Acetone wash from
- ⑦ Acetone wash - last
- ⑧ Sample of powder from

Reaction mixture will come in dry ice
with upfill and extract to end of
H.L. Process