

CLASS OF SERVICE

This is a fast message unless its deferred character is indicated by the proper symbol.

WESTERN UNION TELEGRAM

W. P. MARSHALL, PRESIDENT

SYMBOLS

DL=Day Letter
NL=Night Letter
LT=International Letter Telegram

1201

The filing time shown in the date line on domestic telegrams is STANDARD TIME at point of origin. Time of receipt is STANDARD TIME at point of destination

CTA289 NSB154

1959 FEB 18 PM 1 41

NS BRA285 PD AR=WUX BATON ROUGE LA 18 1214PMC=
DR R A KEHOE (CONFIDENTIAL) KETTERING LABORATORIES
COLLEGE OF MEDICINE UNIVERSITY OF CINCINNATI
EDEN AVE CIN=

SUBJECT: DETERMINATION OF TETRAMETHYLLEAD IN AIR
IT HAS BEEN FOUND IN LABORATORY EXPERIEMENTS THAT
THE ETHYL FIELD KIT METHOD FOR LEAD-IN-AIR GIVES LOW
RESULTS WHEN APPLIED TO TETRAMETHYLLEAD. USING THE
FIELD KIT IN THE PRESCRIBED MANNER AT THE RECOMMENDED
SAMPLING RATES WOULD RESULT IN REPORTED VALUES WHICH

THE COMPANY WILL APPRECIATE SUGGESTIONS FROM ITS PATRONS CONCERNING ITS SERVICE

KE 0020783

N22016

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W. Br. 285/2

1959 FEB 18 PM 1 41

ARE LESS THAN 25 PERCENT OF THE TRUE VALUE

THE REASON FOR THIS DISCREPANCY IS THE SLOW RATE OF REACTION OF TML WITH IODINE WHEN COMPARED TO THE RAPID RATE FOR TEL WITH IODINE. AS A RESULT THE TML VAPORS ARE PULLED THROUGH THE FIELD KIT SCRUBBER BEFORE THEY CAN REACT COMPLETELY TO FORM SALTS WHICH ARE RETAINED. IS IT POSSIBLE THAT THE LOWER REACTIVITY OF TML MAY RESULT IN LOWER TOXICITY?

SIMILAR LABORATORY TESTS MADE WITH THE 24-HOUR COMPOSITE TYPE OF SCRUBBER USED IN THE PLANT SHOWED

THE COMPANY WILL APPRECIATE SUGGESTIONS FROM ITS PATRONS CONCERNING ITS SERVICE

KE 0020784

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15-9 FEB 18 1 PM 1 41

N.Y. Bra 285/3

LEAD RECOVERY EFFICIENCIES IN THE RANGE OF 90 PERCENT WITH TML. THE FACT THAT THESE SCRUBBERS ARE EFFICIENT IS APPARENTLY DUE TO THE MUCH SLOWER AIR FLOW RATES USED IN THE 24-HOUR SAMPLING PROCEDURE.

THE SLOWER RATE OF REACTION OF TML WITH IODINE MAKES SEVERAL VARIABLES IN THE FIELD KIT CRITICAL FOR TML RECOVERY, WHICH WERE NOT CRITICAL FOR COMPLETE TEL RECOVERY. AMONG THESE ARE SAMPLING RATE, IODINE CONCENTRATION, EFFICIENCY OF GLASS WOLL PACKING AND TEMPERATURE

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KE 0020785

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9 FEB 18 1 PM (25) 41

70 Br 285/4

¶ WE ARE PRESENTLY STUDYING THE CRITICAL VARIABLES IN AN EFFORT TO FIND CONDITIONS WHICH WILL ALLOW THE FIELD KIT TO BE APPLIED TO TML-IN-AIR MEASUREMENT WITH A MINIMUM OF MODIFICATION

¶ OTHER POSSIBLE METHODS FOR MEASURING TML-IN-AIR ARE ALSO BEING REVIEWED. WE WILL KEEP YOU INFORMED OF OUR PROGRESS=

R L HUDSON ETHYL CORPORATION =

THE COMPANY WILL APPRECIATE SUGGESTIONS FROM ITS PATRONS CONCERNING ITS SERVICE

KE 0020786