

INTER-OFFICE MEMO **TENNECO CHEMICALS, INC.**

TO C.G. Mayes AT Burlington DATE April 7, 1971
FROM F.W. Kanzler AT Burlington COPY TO H.B. Carr
E.J. Hourihan
SUBJECT Analysis of Plastisol Tower Vapor Phase G.W. Leach
✓File

The two samples (T-14-B-441 and T-11-B-443) submitted by you on 4/5/71 were analyzed. Table I shows the results of the analyses performed.

The results give rise to the following:

1. Vinyl Chloride Impurities

While the T-14-B-441 sample shows a concentration of light end impurities characteristic to recovered monomer, the T-11-B-443 analysis results are more typical for a batch charged with recovered monomer. It is surprising, however, that no heavy end impurities were detected in both samples. The acetylene level of 80 parts per million (ppm) is considered high.

2. Vinyl Acetate

Again, the Tower 14 sample showed a considerably higher level of vinyl acetate, while the vinyl acetate level of the Tower 11 sample is below 1%. In addition to the high vinyl acetate level, the Tower 14 sample showed an up to now unidentified impurity (Unknown No. 1).

From the above, it can be concluded that a considerable amount of recovered monomer must have been present in the T-14-B-441 sample.

F.W. Kanzler

F.W. Kanzler

Attachment.

FWK/jt

TABLE I

	<u>T-14-B-441</u>	<u>T-11-B-443</u>
Propane	1920	370
Propylene	450	70
Allene	1880	530
Butane	2	4
Butene-1	< 1	1
Methyl Acetylene	420	160
Methyl Chloride	250	130
1,3 Butadiene	< 1	3
Acetylene	80	8
Vinyl Acetate	6.68%	0.21%
Unknown No. 1	0.35%	ND
Oxygen	1300	NA

ND - None Detected

NA - Not Available

All values in parts per million, except where noted.