

TENNECO CHEMICALS, INC.

TO	W.C. Champion	AT	Burlington	DATE	April 25, 1975
FROM	F.W. Kanzler	AT	Burlington	COPY TO	A.L. Dickerson P. Gawason H.R. Horton D.J. Krzywicki R.A. Lojewski P.R. Scarito A.C. Siegel W.E. Stewart E. Young ✓ File
SUBJECT	MONTHLY PROGRESS REPORT April, 1975				

I. ROUTINE ANALYSIS

<u>A. Raw Materials</u>		
IR of incoming raw material		6
Polystyrene in styrene		4
Phenol in RVCM-VAcM		1
<u>B. Finished Product</u>		
Residual VCM - resin - slurry		402
Bound Acetate		65
Residual VAcM		31
<u>C. Environment and Personal Monitoring Samples</u>		
VCM in Air - perimeter		110
Residual VCM effluent water		10
Personal Monitoring		385
VCM in exhaust		12
Brabender Extrusion - 10R		6
Total from Section II		55
	Total	1087

II. SPECIAL TESTING

A. Resin Plant

1. Raw Materials

a. VCM - B.F. Goodrich

Certificates of analysis results from VCM from B.F. Goodrich listed high levels of methyl chloride - up to 90 ppm (specification 100 ppm maximum) - and 1,3 Butadiene - up to 7 ppm (specification 6 ppm maximum). After initial contact via a CAR, B.F. Goodrich was provided with Tenneco VCM specifications for oxychlorination VCM. Three tank cars with relatively high levels of the above light ends were picked for analysis in Burlington. The cars did not arrive to date.

2. In-Process

a. Residual VCM in Resin and Slurries - All Plants

The once-per-shift analysis of dryer samples was continued, in addition to special resin and slurry samples in support of Process Engineering programs.

b. Low Residual VCM T-10R for Nixon

A total of six lots - five batches/lot of low residual VCM - <2 ppm - T-10R resins were manufactured for Nixon. Around the clock coverage was provided for this program. A report was issued.

3. Finished Product

a. VCM Survey - Warehouse-Aged Resin and Compound

This Process Engineering program was supported with a total of 50 residual VCM analyses. The analyses showed that the majority of the plastisol resins show <2 ppm. In the compounds, VCM levels were found to be very low in flexibles - ND to 1 ppm. In contrast, rigids and Vydol compounds showed levels to around the 5 ppm levels. A report was issued.

b. Improved Plastisol Testing - Rheology, Optical

In concert with R&D, a program has been started to evaluate a stabilized paste formulation - similar to production formulation. The aim is to introduce improved samples and sample preparation in order to test a larger crosscut of the plastisol lots tested. Rheological and optical tests, as well as heat stability analyses, will be run.

4. Environmental Testing

a. Bendix System

The gas chromatographs are all operational with the last unit - B/V-1 - going on stream on 4/11/75. The alarm system does not work reliably, however, improvement is noted. Sample area verification by Engineering is still outstanding.

b. Perimeter Sampling - Bendix

Sampling of perimeter air is accomplished with the aid of the L/A-1 unit. Both sample points - #7 well and boiler house gate - seem to be considerably affected by

excursions occurring in the Homopolymer and Copolymer Plants. A status report was issued.

B. Compound Plant

1. Stainless Steel Blenders

Darkening of compound mixes was noted when run in the new stainless steel blenders. A sample of the surface deposit after a 2028 Natural run was analyzed. It was found that a phthalate plasticizer, lead stearate, lead sulfate and camelwhite are contained in the surface wipings. An attempt to identify the "black" wiping gave inconclusive results. A sample was submitted to R&D for analysis on the AA.

C. Flemington Plant

1. Bound Acetate Round Robin

The latest round robin showed again good correlation between Flemington and Burlington. A report was issued.

D. Miscellaneous

1. Pasadena Resin - Residual VCM

A total of five samples of 200-2 and 250 resin from the Pasadena Plant were analyzed for residual VCM. All samples showed <5 ppm with good interlaboratory agreement. A report was issued.

2. Running Account of Analysis

<u>October</u>	<u>November</u>	<u>December</u>	<u>January</u>	<u>February</u>	<u>March</u>
1419	1194	1317	1076	995	1193

Fred H. Kanzler

F.W. Kanzler

FWK/jst