

JENNAT CORPORATION

A SUBSIDIARY OF UNION CARBIDE CORPORATION



Quality Emulsion Polymers

2043 STEEL DRIVE

TUCKER GEORGIA 30084

404 -- 939-9327

info cc: RNU

September 4, 1975

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Subject: Vinyl Chloride Monitoring
Cooperative Sampling at Glidden-Alanta

Gentlemen:

On August 22 Jack Long and the writer visited the Glidden-Atlanta facility and did some cooperative vinyl chloride monitoring with Bob Lake of Glidden. We received a tour of the plant and indicated we would be glad to help out with such monitoring in the future.

Our samples were collected over 5 to 15 min. intervals on activated charcoal at flow rates of 120 cc/min., desorbed with carbon disulfide, and analyzed by gas chromatography.

Bob collected his samples on activated charcoal at flow rates of 1½ liters/min. (which seemed rather high to me) and sent the samples to their R & D Dept. in Cleveland for determination of vinyl chloride and certain specific ketones. He did not know anything about their analytical methods but said all of the vinyl chloride numbers received thus far were very low.

Our monitoring showed concentrations ranging from 0.3 to 1.1 ppm, the higher concentration being in the PVC cutting platform area where PVC was being dissolved in toluene at about 60°C. Toluene odor in this area was rather strong.

A sample collected from the head space of Glidden's storage tank for our U-1000 showed 0.66 ppm VC1, however, the tank was nearly empty and the concentration would be expected to be low.

Another sample collected from the head space of a tank containing 4500 gal. of paint made from U-1000 late showed 0.34 ppm VC1. This tank was nearly full.

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The results of our monitoring are shown on the attached page. Our numbers indicate they have no serious vinyl chloride exposure problem, particularly with regard to our latex. Workers spend only a limited amount of time on the vinyl cutting platform so the 1.1 ppm VCl level in that area does not reflect their exposure over an 8-hour period.

We have communicated these results to Glidden and are awaiting feedback from their laboratories.

John L. Ferrell

John L. Ferrell

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VINYL CHLORIDE MONITORING

Cooperative Sampling at Glidden - Atlanta on 8/22/75

<u>Sample No.</u>	<u>Location of Sample</u>	<u>Time</u>	<u>ppm VCl</u>
1.	Vinyl bag storage area bldg. 32	9:35-9:50 a.m.	0.35
2.	Vinyl cutting platform area bldg. 33 Sample collected about 5 ft from mixing tanks.	10:00-10:16 a.m.	1.12
3.	U-1000 storage tank No. 7272 Air Space at top of tank.	12:50-1:05 p.m.	0.66
4.	Paint (Y-5359# 11476) from U-1000 latex head space at top of tank.	12:55-1:03 p.m.	0.34
5.	Vinyl cutting platform bldg. 33 Vinyl bags being cut open and resin charged to toluene. Sample collected about 2 ft. from bag cutter.		0.78

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