

April 15, 1974

To: Mr. C. J. Haines
Building 106-4

cc: Mr. M. A. Aitken
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Mr. D. W. Finn
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Mr. M. E. Griffith/Mr. G. L. Price
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Mr. R. G. Lilley/Mr. W. C. Young
Mr. M. P. McCready
Mr. H. H. McGriff/Mr. R. L. Barker
Mr. R. J. Murphy
Mr. R. N. Wheeler, Jr. ✓

From: Mr. B. L. Murray *ELF*

Subject: Vinyl Chloride Monitoring
Plant Laboratory Area, Building 137 Room 109 and 214
Resin Samples From Solvent Resin Unit, Building 152
South Charleston Plant
Project No. 514-H-106-74

RECEIVED

APR 16 1974

R. N. WHEELER, JR.

Recent environmental grab samples collected by Messrs R. L. Barker and H. C. Stemple during laboratory analyses of varnish resin from the Solvent Vinyl Resin Unit showed Vinyl Chloride concentrations to be <50 ppm. The concentrations ranged from <0.05 to 46 ppm Vinyl Chloride vapor in air.

To comply with the Emergency Temporary Standard now in effect for exposures to Vinyl Chloride personnel monitoring is required.

At your earliest convenience we would like to initiate the personal monitoring program whereby the analyst will wear a small vacuum pump connected to a glass tube containing activated charcoal which adsorbs any Vinyl Chloride vapor present.

This type monitoring will be conducted not less frequently than monthly so long as the concentrations of Vinyl Chloride do not exceed 50 parts per million (PPM) by volume in air.

/pl

Attachment

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TABLE I

PLANT LABORATORY
BUILDING 137 - ROOM 109
COAGULATION OF VARNISH RESIN
ENVIRONMENTAL GRAB SAMPLES

JOB CYCLE - 8:05 a.m. - 8:15 a.m.

Date 1974	<u>Sampling Conditions</u>	<u>VCL Concentration - PPM</u>	
		3/27	3/29
	Room		
	Breathing Level - Background	<0.05	0.10
	Breathing Level		
	Dumping resin sample into coagulation pit	<0.05	9.0
	Breathing Level		
	Coagulating 1st Sample	0.40	1.1
	Breathing Level		
	Dumping 2nd sample into coagulation pot and coagulation of 1st sample	0.70	33.0
	Draining off liquid	-	46.0
	Breathing Level		
	Coagulating 1st and 2nd Sample	24.0	30.0
	Breathing Level		
	Approximately 5 minutes after completion of coagulation procedure	34.0	0.3

TABLE II

BUILDING 137 - ROOM 214

7:25 a.m.

Date 1974		4/3
	Room	
	Breathing Level - Background	<0.05
	Breathing Level after blending two samples	<0.05
	Breathing Level after blending eight samples	<0.05
	Breathing Level after 25 samples were poured into pan	1.1
	Breathing Level after 8 samples were poured into pan	0.47